ORDER NO. ACED9502433
C4

Service Manual

AUTOMOTIVE CONSUMER ELECTRONICS

COMPACT disc DIGITAL AUDIO

CQ-DP655EUC/CQ-DP640EUC
CQ-DP638EU/CQ-DPX100EU

Removable Face High-Power CD Player / Receiver

<CQ-DP655EUC>

- NTT has applied for trademark registration for MASH.

Specifications*

General

Power Supply	:	DC 12V (11V - 16V), Test Voltage 14.4V Negative Ground
Tone Action	:	Bass; ± 12dB at 100Hz Treble; ± 12dB at 10kHz
Pre-Amp Output Voltage	:	1.4V (CD Play Mode ; 1kHz 0dB)
Output Impedance	:	600Ω
Current Consumption	:	Less than 1.7A (CD Play Mode)
Maximum Power Output	:	30W×4 channels at 400Hz, Volume Control Maximum
EIA Power Output	:	11W per channels into 4ohms, 20 to 30,000Hz, at 1% THD

AM Radio

Frequency Range	:	530 - 1,710kHz
Usable Sensitivity	:	25dB/μV (25μV, S/N 20dB)

FM Stereo Radio

Frequency Range	:	87.9 - 107.9MHz
Usable Sensitivity	:	13.2dBf. (1.25μV, 75Ω)

CD Player

Sampling Frequency	:	32 times oversampling
DA Converter	:	MASH·1bit/4 DAC System
Pick-Up Type	:	Astigma 3-beam
Light Source	:	Semiconductor laser
Wavelength	:	780 nm
Frequency Response	:	20Hz to 20,000Hz (±1dB)
Signal to Noise Radio	:	96dB
Wow and Flutter	:	Below measurable limits
Channel Separation	:	75dB

Dimensions**

Main unit (W×H×D)	:	7"×1-15/16"×5-7/8" (178×50×150 mm)

Weight**

Main unit	:	3lbs. 12oz (1.7kg)

* Specifications and the design are subject to possible modification without notice due to improvements.

** Dimensions and Weight shown are approximatme.

- Above specifications comply with EIA standards.

Panasonic®

©1995 Matsushita Communication Industrial Co., Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

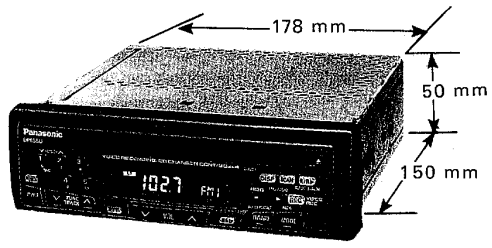
⚠WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CONTENTS

	Page
DIMENSIONS	1
FEATURES	1
REPLACEMENT FUSE	1
MAINTENANCE	1
RADIO AND CD DECK ALIGNMENT	1
LASER PRODUCTS	2
<OPERATING INSTRUCTIONS>	
Power and Sound Control	2, 3
Radio Basics	4
Compact Disc Player Basics	5
CD Changer Basics	6
Clock Basics	7
Voice Recording	7, 8
Installation Guide	8~13
Troubleshooting	14
Special Notes	15
BLOCK DIAGRAM	16
SCHEMATIC DIAGRAM (Display)	17
WIRING DIAGRAM (Display)	18
PACKAGE AND IC BLOCK DIAGRAM	18
SCHEMATIC DIAGRAM (Main)	19
WIRING DIAGRAM (Main)	20
SCHEMATIC DIAGRAM (CD Servo)	21
WIRING DIAGRAM (CD Servo)	22
NAME OF TERMINALS DESCRIPTION	23, 24
IC BLOCK DIAGRAM (CD Servo)	25
VOICE RECORDING SYSTEM	26~28
WARNING ALARM SYSTEM	29
REPLACEMENT PARTS LIST	30~38, 40, 41
EXPLODED VIEW (Unit)	39
EXPLODED VIEW (CD Deck)	42, 43
PACKING PARTS LIST	44

DIMENSIONS



FEATURES

- Voice Recording System.
  (CQ-DP655EUC/CQ-DP640EUC/CQ-DPX100EU)
- 32bit-times oversampling MASH 1bit 4-DAC system.
- Digital servo for reliable playback.
- PLL (Phase Locked Loop) synthesized tuning.
- 15-FM, 5-AM presets with preset scan.
- Intelligent volume control and switchable beep on/off.
- Removable face plate.
- Warning Alarm System.
  (CQ-DP655EUC/CQ-DP640EUC/CQ-DPX100EU)

REPLACEMENT FUSE

Use a fuses of the same specified rating (10 amps). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit.

MAINTENANCE

Your product is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner, or other solvent.

RADIO AND CD DECK ALIGNMENT

■ RADIO BLOCK

Do not align the AM and FM package blocks. When the package block is necessary, it will be supplied already aligned at the factory.

■ CD DECK BLOCK

This model has no servo alignment points because microcomputer controls the servo circuit.

REPAIR JIG

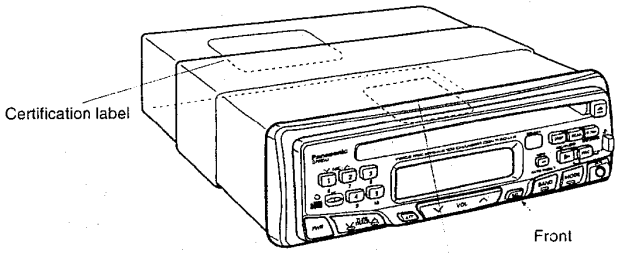
CD Deck Connector (CN1) Extension Cord : YESFZ2021

❒ Laser Products (This page describes the standard in only United States.)

Caution:
This product utilizes a laser.
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser products:
Wave length 780 nm
Laser Power No hazardous radiation is emitted with safety protection.

- **Label indications and their locations**



Certification Label

Product complies with DHHS Rules 21 CFR, Subchapter J in effect as of date of manufacture.
Matsushita Communication Industrial Co., Ltd.
Yokohama, Japan

MANUFACTURED

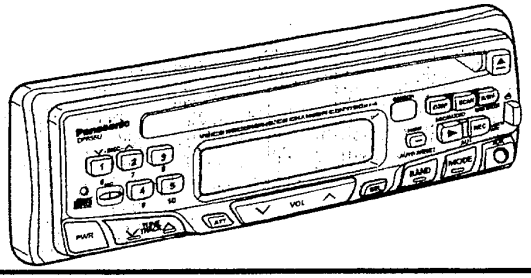
Identification Label

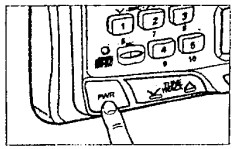
MODEL NO.
NUMÉRO DE MODÈLE C Q - D P 6 5 5 E U C

⊣⊢	▷	▭	⏚
12V	4~8Ω	10A	

Manufactured by Matsushita Communicatin Industrial Co., Ltd. Yokohama Japan
Made in Japan

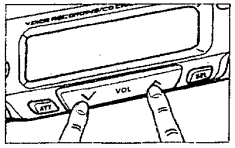
Power and Sound Controls





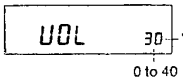
Power

If the car is not already running, turn the key in the ignition until the accessory indicator lights.
Press PWR to switch on the power.

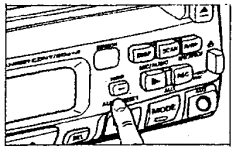


Volume

Press "VOL∧" or "VOL∨" to increase or decrease volume.



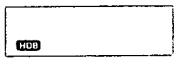
Press "VOL∧" or "VOL∨" for more than a half second to change numeric levels on the display rapidly.

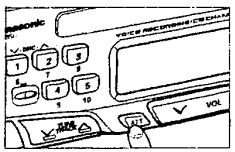


HDB (High Definition Bass)

<Only for CQ-DP655 / 640EUC / DPX100EU>

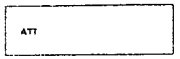
Especially for rock music, the bass-sound will be more powerful.
- Press HDB to be able to listen to high-definition bass.
- Press HDB again to return to the normal tone.





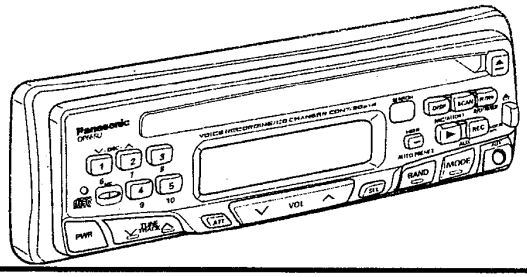
Attenuator

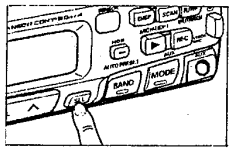
- Press ATT. Volume will decrease to about 1/10 of its previous level.
- Press ATT again to deactivate when listening at normal volume.



Note: This unit is equipped with an anti-volume-blast circuit which serves as an automatic volume level adjuster so that you will not be deafened sudden loud volume.
This system operates as follows. When PWR is switched on, the volume level is low. After that, the volume level gradually returns to its previous level prior to switching off the unit.

Power and Sound Controls continued





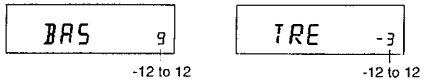
Changing Audio Modes

Press SEL to switch the audio mode in the following order.

VOLUME ➡ BASS ➡ TREBLE
⬇ ⬆
FADER ⬅ BALANCE

Bass and Treble

- Press SEL to select the BASS (TREBLE) mode. press "VOL∧" or "VOL∨" to increase or decrease the bass/treble response.

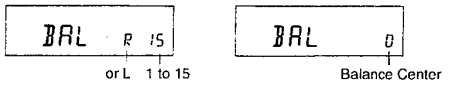


-12 to 12 -12 to 12

- Press "VOL∧" or "VOL∨" for more than a half second to change numeric levels on the display rapidly.

Balance

- Press SEL to select the BALANCE mode Press "VOL∧" or "VOL∨" to shift the sound volume to right or left speakers.

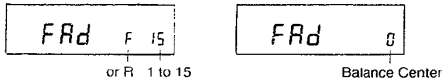


or L 1 to 15 Balance Center

- Press "VOL∧" or "VOL∨" for more than a half second to change numeric levels on the display rapidly.

Fader

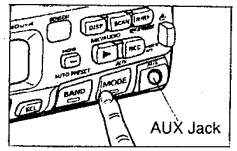
- Press SEL to select the FADER mode. Press "VOL∧" or "VOL∨" to shift the sound volume to the front or rear speakers.



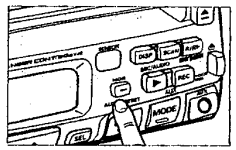
or R 1 to 15 Balance Center

- Press "VOL∧" or "VOL∨" for more than a half second to change numeric levels on the display rapidly.

Note: When a control mode (BAS/TRE/BAL/FAd) is selected but no operation is made within 5 seconds, the display will return to the normal operation (volume adjustment) mode. In such a case, press SEL again to select the next control mode.

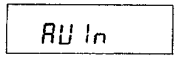


<Only for CQ-DP638EU>



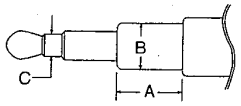
Selecting Auxiliary Source

- Press MODE (AUX) for more than 2 seconds to select AUX input mode.



- Connect the auxiliary equipment (an optional DCC player deck or any other appropriate equipment) to the AUX Jack.

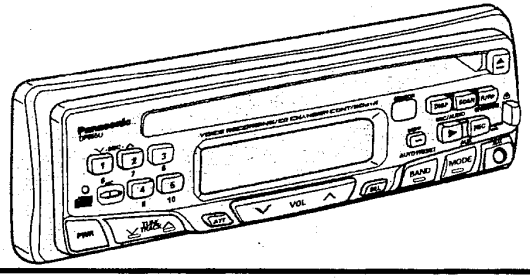
To resume the previous mode, press MODE.

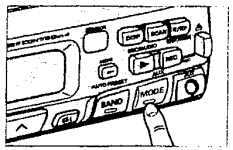


A-MIN 1/2" LONG (12mm)
B-MAX 2/5" DIA. (10mm)
C-MIN 1/8" DIA. (3.5mm)

Caution:
In order to insert the plug into the "AUX" Jack properly, make sure to use the correct size of the stereo plug shown on the left.

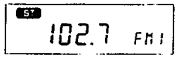
Radio Basics

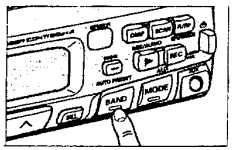




To change Tuner Mode

Tuner mode is selected if the MODE button is pressed in CD Player, CD Changer Control (only for CQ-DP655EUC) or AUX modes.



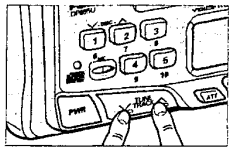


Selecting a Band

Press BAND to select the bands in the following order.

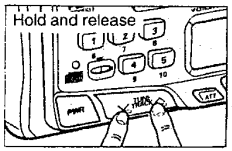
FM1 ➡ FM2 ➡ FM3 ➡ AM

"ST" indicator lights if the station is broadcasting in stereo.



Manual Tuning

Press "∧TUNE" or "∨TUNE" to move to a higher or lower frequency.



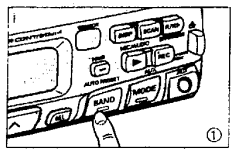
Seek Tuning

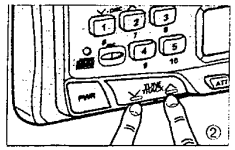
Press and hold "∧TUNE" or "∨TUNE" for more than a half second, then release. The radio automatically stops on the next station.

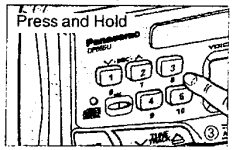
Preset Station Setting

Up to 20 stations can be preset in the station memory as follows;

FM1	FM2	FM3	AM
5 stations	5 stations	5 stations	5 stations

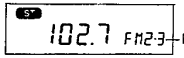






Manual Station Preset

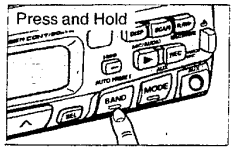
① Press BAND to select a desired band.
② Use manual or seek tuning to find a station that you want to program into memory.
③ Press and hold one of the station selector buttons 1 through 5 until the display blinks.
Repeat the process to set other stations for the FM1 to AM bands.



Note; You can change the memory setting by repeating the above procedure.

Tuning in a Preset Station

Press any of the buttons 1 through 5 to tune in the station preset by the above steps ① to ③.



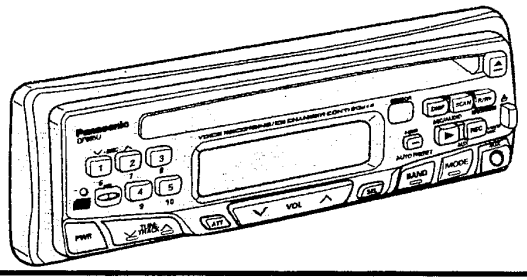
Auto Station Preset

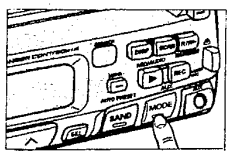
Select a band and press and hold BAND (AUTO PRESET) for more than 2 seconds.

- The five strongest available stations will be automatically set in memory preset buttons 1 through 5.
- Once set, the preset stations are sequentially scanned for 5 seconds.
- Press the appropriate preset button for the station you want to hear.

Caution: For safety reasons, do not attempt to program while driving.

Compact Disc Player Basics





Mode Selection

While the disc is inserted, press MODE to switch the operation mode in the following order.

<For CQ-DP655EUC>

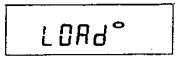
Tuner ➡ CD Player ➡ CD Changer Control

< For CQ-DP655EUC/CQ-DP640EU/CQ-DPX100EU >

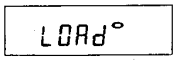
Tuner ⬌ CD Player

To start the CD Player

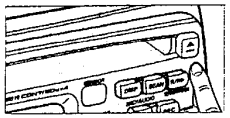
Insert the disc (label side up) and playback starts automatically.



"LOAd" will be displayed until the disc is loaded. Play starts from first track.

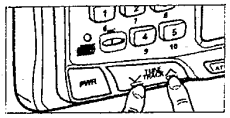


Note: While the disc is inserted, "⟲" indicator will light. If you press "MODE" after the disc is ejected, the disc will be re-inserted.



Stopping and Ejecting a Disc

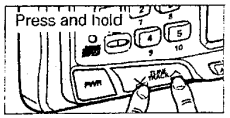
Press "▲" to stop CD play, and the disc will quietly eject from the CD slot. (During disc ejection, "EJ" will be displayed.)



Selecting a Track

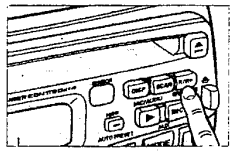
Press "TRACK∧" once to go to the next track. Press repeatedly to step forward through all the tracks.

Press "∨TRACK" once to play from the beginning of the track you are listening to. Press twice to play the previous track. Press repeatedly to step backward through all the tracks.



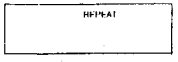
Searching a Track

Press and hold "TRACK∧" or "∨TRACK" for more than a half second to activate fast forward or reverse through a track. Press "TRACK∧" or "∨TRACK" again to end the search mode.

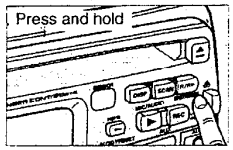


Repeating a Track

Press R/R► to repeat the current selection. "REPEAT" indicator will light.



The current selection will continue to repeat until you press R/R► again.



Random Selection

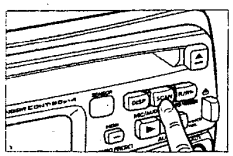
Press and hold R/R► for more than 2 seconds. "RANDOM" indicator will light. A random selection of music is played from all available tracks.

To turn off the random play feature, press and hold R/R► again for more than 2 seconds.

Notes:

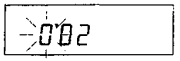
- If the R/R► is pressed during random play, the track now in play automatically returns to its beginning upon coming to the end and plays back again. (Random repeat)

- When the R/R► is pressed again, repeat play stops and returns to random play.
- If the same button is pressed again for more than 2 seconds, random play stops and repeat play starts.

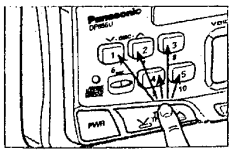


Scanning a Disc

Press SCAN. The display will blink and the first 10 seconds of each track on the disc play in order.



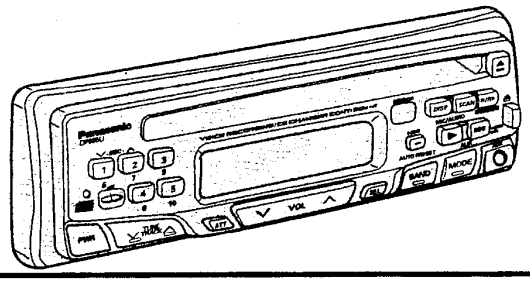
To stop scanning and continue with the current track, press SCAN again.

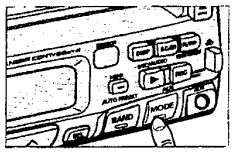


Selecting by Track Number (Direct access)

- Press a number from "1" to "5" then the corresponding track will start.
- Press a number from "6" to "10" ("1" to "5") for more than one second and the corresponding track will start.

CD Changer Basics (Only for CQ-DP655EUC)

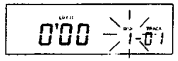




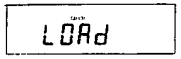
To start the CD Changer

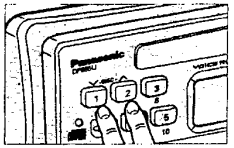
With a disc magazine inserted in the CD Changer, press MODE. Play starts from first track.

[Only for CX-DP600EUC, CX-DP2000EU]



[Only for CX-DP15EU/EC]

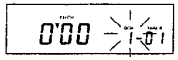




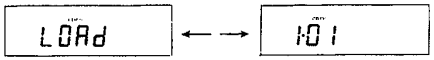
Selecting a Disc

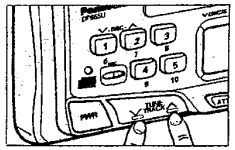
Press "Disc∨" or "Disc∧" to select discs in descending or ascending order. Display shows as follows until the selected disc is loaded. Play starts from first track.

[Only for CX-DP600EUC, CX-DP2000EU]



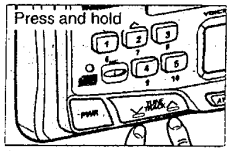
[Only for CX-DP15EU/EC]





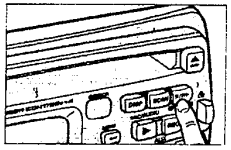
Selecting a Track

Press "TRACK∧" once to go to the next track. Press repeatedly to step forward through all the tracks.
Press "∨TRACK" once to play from the beginning of the current track. Press twice to play the previous track. Press repeatedly to step backward through all the tracks.



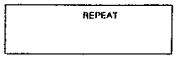
Searching a Track

Press and hold "TRACK∧" or "∨TRACK" for more than a half second to activate fast forward or reverse through a track. Release "TRACK∧" or "∨TRACK" to resume the normal CD play from that position.

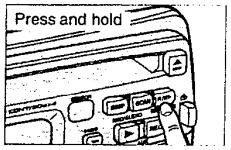


Repeating a Track

Press R/R► to repeat the current selection. "REPEAT" indicator lights.



The current selection continues to repeat until you press R/R► again.



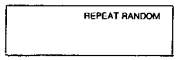
Random Selection

Press and hold R/R► for more than 2 seconds. "RANDOM" indicator will light. A random selection of music is played from all available tracks.

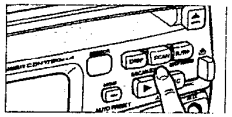
To turn off the random play feature, press and hold R/R► again for more than 2 seconds.

Note:

- If the R/R► is pressed during random play, the track now in play automatically returns to beginning upon coming to the end plays back again. (Random repeat)

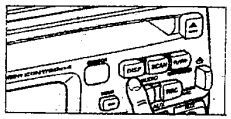


- When the R/R► is pressed again, repeat play stops and returns to random play.
- If the same button is pressed again for more than 2 seconds, random play stops.



Scanning Tracks

Press SCAN. The display blinks and the first 10 seconds of each track on the discs play in sequence.
To stop scanning and continue with the current track, press SCAN again.

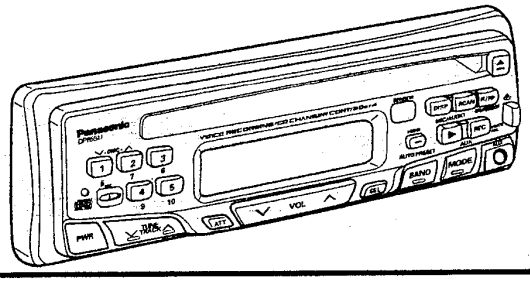


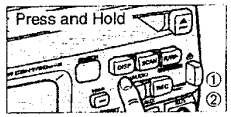
Changing the Display (only for CX-DP15EU/EC)

Press DISP to switch the display in sequence as follows.

Disc / Track Number
↕
Track Play Time

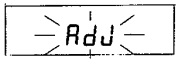
Clock Basics (The clock system is 12-hours.)



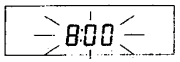


Initial Time Setting

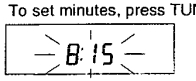
① Press and hold DISP for more than 2 seconds (For CQ-DP640EUC; simply press), "AdJ" is displayed.
② Press and hold DISP again for more than 2 seconds, "AdJ" blinks indicating the time setting mode is activated.



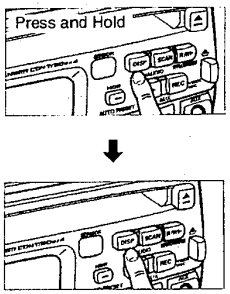
③ To set hours, press "∨" TUNE/TRACK.



To set minutes, press TUNE/TRACK "∧".



Hold "∧" or "∨" to change numbers rapidly.
④ When you have set the time, press DISP.



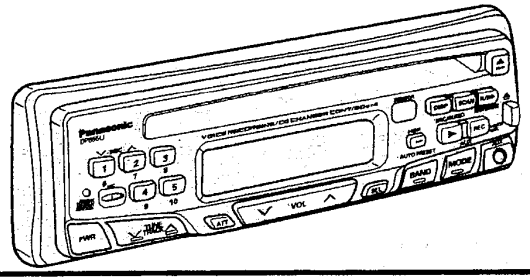
Resetting the Time

<For CQ-DP655EUC>
When you want to reset the time, press DISP and hold it for more than 2 seconds for 2 times to activate the time setting mode (for 1 time when the time is displayed). On the time display, repeat step ③ and ④ above.
<ForCQ-DP640EUC>
When you want to reset the time, press DISP and hold it for more than 2 seconds to activate the time setting mode. On the time display, repeat step ③ and ④ above.

Selecting the Clock Display

Press the DISP once again, the current audio display mode resumes.
Press and hold DISP for more than 2 seconds for clock display.
(For CQ-DP640EUC; simply press)

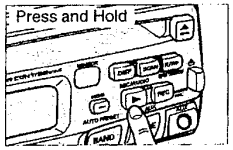
Voice Recording

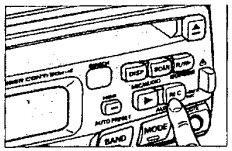


The Voice Recording function offers record/playback of program from the unit and external source from the built-in microphone for up to 20 seconds. It is mainly used as follows:

1. To record and playback important notes.
2. To record and playback surprise messages to others.
3. To record a simple direction for other drivers and use it as a road guide.

There are many other ways to enjoy this function as you like.





Operation method

Changing Record Mode

- When "PLAY" is pressed for more than 2 seconds, record mode changes from MIC to an audio mode (Radio/CD/CD Changer/AUX). ("MIC" indicator turns off form LCD display)
- When "PLAY" is pressed again for more than 2 seconds, record mode changes from an audio mode to MIC. ("MIC" indicator turns on)

Microphone ⟷ Audio (Tuner/CD/CD Changer/AUX)

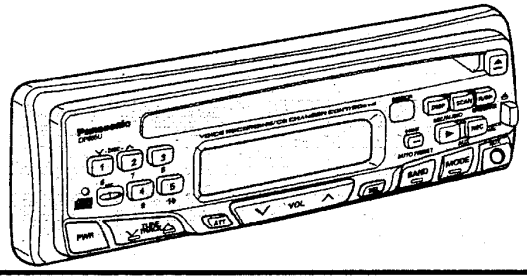
To record

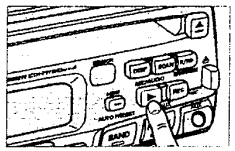
- When "REC" is pressed for more than 2 seconds during the MIC record mode, external sound is recorded through the built-in microphone.
- When "REC" is pressed for more than 2 seconds during the audio record mode (Radio/CD/CD Changer/AUX), current program from the unit is recorded.
- When "REC" is pressed for more than 2 seconds again, (before the 20 seconds end) record ends.
- When recording reaches at the end of 20 seconds, the recording light turns off.

Note:

1. Maximum recording time is 20 seconds.
2. In the audio mode, the recording from the microphone cannot be made.
3. If you want to erase the previous recorded message, please do.
   (1) Press "REC" for more than 2 seconds until the recording light is turned on.
   (2) As soon as the recording light turns on, press "REC" again for more than 2 seconds until the recording light is turned off.

Voice Recording continued





To play

- Press "PLAY" to playback the previous recorded message.
- When playback ends, the previous audio mode is resumed.

Caution:
1. Do not make recording while the car in motion.
2. The previous message will be erased, as soon as you press the recording button.
3. Surrounding noise will be recorded, while the recording from microphone.

Installation Guide

⚠ WARNING

The installation information is designed for experienced installers and is not intended for non-technical individuals. It does not contain warnings or cautions of potential dangers in attempting to install this product.

Any attempt to install this product in a motor vehicle by anyone other than qualified installer could cause damage to the electrical system and could result in serious personal injury or death.

Caution: This unit will operate with a 12 volt DC negative ground auto battery system only. Do not attempt to use it in any other system. Doing so could cause serious damage.

❒ Installation Hardware

No.	Item	Diagram	Qty
①	Mounting Collar		1
②	Plain Washer (5 mmϕ)		2
③	Spring Washer (5 mmϕ)		2
④	Hex. Nut (5 mmϕ)		2
⑤	Rear Support Strap		1
⑥	Hex. Bolt (5 mmϕ × 25 mm)		1
⑦	Toothed Lock Washer (5 mmϕ)		1
⑧	Mounting Bolt (5 mmϕ)		1
⑨	Dismounting Pin		1
⑩	Power Connector		1
⑪	Removable Face Plate Case		1

Installation Guide continued

❒ Required Tools

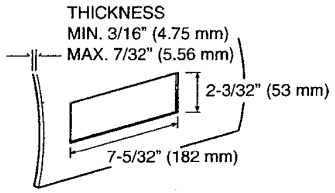
You'll need a screwdriver, a 1.5 volt AA battery, and the following:

12 V DC TEST BULB

ELECTRICAL TAPE

SIDE-CUT PLIERS

❒ Dashboard Specifications



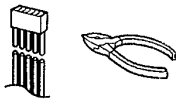
❒ Identify All Leads

The first step in installation is to identify all the vehicle wires you'll use when hooking up your sound system.
As you identify each wire, we suggest that you label it using masking tape and a permanent marker. This will help avoid confusion when making connections later.

Note: Do not connect the power connector to the stereo unit until you have made all connections. If there are no plastic caps on the stereo hooking wires, insulate all exposed leads with electrical tape until you are ready to use them. Identify the leads in the following order.

Power Lead
If your vehicle has a radio or is pre-wired for one:

Cut the connector plug off (leaving the leads as long as possible) so that you can work with individual leads.



Turn the ignition on to the accessory position, and ground one lead of the test bulb to the chassis.

Touch the order lead of the test bulb to each of the exposed wires from the cut radio connector plug. Touch one wire at a time until you find the outlet that causes the test bulb to light.

Now turn the ignition off and then on. If the bulb also turns off and on, that outlet is the vehicle power lead.

If your vehicle is not wired for an audio unit:
Go to the fuse block and find the fuse port for radio (RADIO), accessory (ACC), or ignition (IGN).

Battery Lead
If your stereo unit has a yellow lead, you will need to locate the car's battery lead. Otherwise you may ignore this procedure. (The yellow battery lead provides continuous power to maintain a clock, memory storage, or other function.)

If your vehicle has a radio or is pre-wired for one:
With the ignition and headlights off, identify the car battery lead by grounding one lead of the test bulb to the chassis and checking the remaining exposed wires from the cut radio connector plug.

If your vehicle is not wired for an audio unit:
Go to the fuse block and find the fuse port for the battery, usually marked BAT.

Speakers
Identify the car speaker leads. There will be two leads for each speaker, usually color coded.

A handy way to identify the speaker leads and the speaker they connect with is to test the leads using a 1.5 volt AA battery as follows.

Hold one lead against one pole of the battery and stroke the other lead across the other pole. You will hear a scraping sound in a speaker if you are holding a speaker lead.
If not, keep testing different lead combinations until you have located all the speaker leads. When you label them, include the speaker location for each.

Antenna Motor
If your vehicle is equipped with an automatic power antenna, identify the vehicle motor antenna lead by connecting one bulb tester lead to the vehicle battery lead and touching the remaining exposed wires from the cut radio connector plug one at a time. You will hear the antenna motor activate when you touch the correct wire.

Antenna
The antenna lead is a thick, black wire with a metal plug at the end.

Telephone Mute
If you have a cellular phone, refer to its operator manual to identify the telephone mute lead connection.

❒ Connect All Leads

Now that you have identified all the wires in the vehicle, you're ready to begin connecting them to the stereo unit wires. The connection diagram on Pages 13 show the proper connections and color coding of the leads.
We strongly recommend that you test the unit before making a final installation.
You can set the unit on the floor and make temporary connections to test the unit. Use electrical tape to cover all exposed wires.

Important: Connect the red power lead last, after you have made and insulated all other connections.

Ground
Connect the black ground lead of the power connector to the metal vehicle chassis.

Speakers
Connect the speaker wires. See the wiring diagram below for the proper hookups. Follow the diagram carefully to avoid damaging the speakers and the stereo unit.

The speakers used must be able to handle more than 30 watts of audio power. If using an optional audio amplifier, the speakers should be able to handle the maximum amplifier output power. Speakers with low input ratings can be damaged.

Speaker impedance should measure 4 - 8 ohms, which is typically marked on most speakers. Lower or higher impedance speakers will affect output and can cause both speaker and stereo unit damage.

Caution: Never ground the speaker cords. For example, do not use a chassis ground system or a three-wire speaker common system. Each speaker must be connected separately using parallel insulated wires. If in doubt about how your car's speakers are wired, please consult with your nearest professional installer.

Installation Guide continued

Motor Antenna
Connect the vehicle motor antenna lead to the blue motor antenna relay control lead.

Battery
Connect the yellow battery lead to the correct radio wire or to the battery fuse port on the fuse block.

Telephone Mute
Connect the orange telephone mute lead as instructed in your cellular phone operator manual.

Antenna
Connect the antenna by plugging the antenna lead into the antenna receptacle.

Equipment
Connect any optional equipment such as amplifier, according to the instructions furnished with the equipment. Keep about 12 inches (30 cm) of distance between the speaker cords/amplifier unit and the antenna/antenna extension cord. Read the operating and installation instructions for any equipment you will connect to this unit.

Power
Connect the red power lead to the correct vehicle radio wire or to the appropriate fuse port on the fuse block.

If the stereo unit functions properly with all these connections made, disconnect the wires and proceed to the final installation.

❒ Final Installation

Lead Connections
Connect all wires, making sure that each connection is insulated and secure. Bundle all loose wires and fasten them with tape so they won't fall down later. Now insert the stereo unit into the mounting collar.

Congratulations! After making a few final checks, you're ready to enjoy your new auto stereo system.

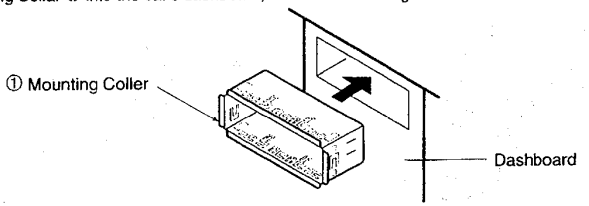
❒ Final Checks

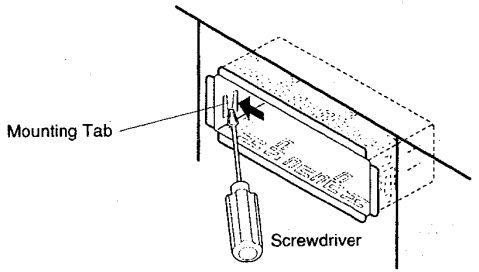
1. Make sure that all wires are properly connected and insulated.
2. Make sure that the stereo unit is securely held in the mounting collar.
3. Turn on the ignition to check the unit for proper operation.

❒ Installation Procedures

1. Secure the Mounting Collar ①.

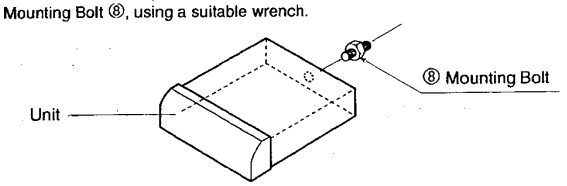
Insert Mounting Collar ① into the car's dashboard, and bend mounting tabs out with a screwdriver.



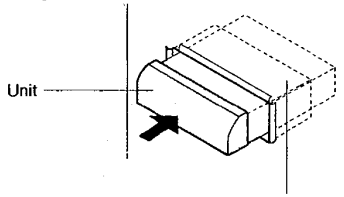


2. Secure the rear of the unit

a) Check the electrical connection by referring to this operating instructions.
b) Connect the Mounting Bolt ⑧, using a suitable wrench.



c) Insert the unit into Mounting Collar ① and push it in unit "click" is heard.

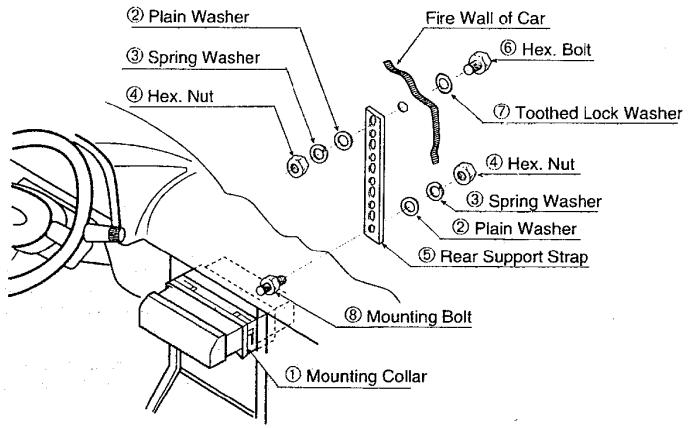


d) Secure the rear of the unit to the car by either of the two recommended methods on the next page.

Installation Guide continued

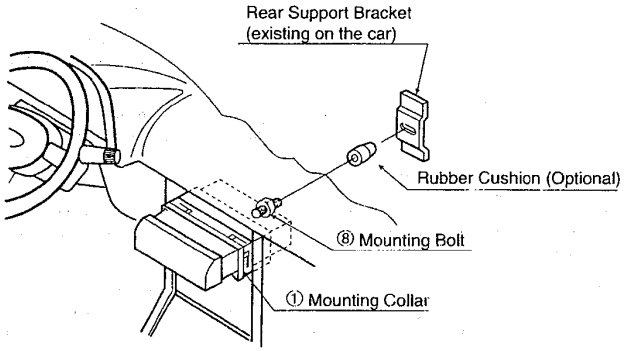
■ Using the Rear Support Strap ⑤

Affix one end of the Rear Support Strap ⑤ to the rear of the unit, and the other end to the Fire Wall of Car, or some other metallic area.

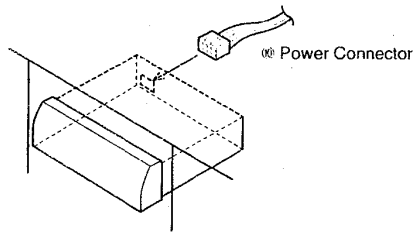


■ Using the Rubber Cushion (Optional)

(If there is an existing Rear Support Bracket on the Fire Wall of Car.)
Cover Mounting Bolt ⑧ on the rear of the unit with Rubber Cushion (Optional), and mount it into existing Rear Support Bracket.



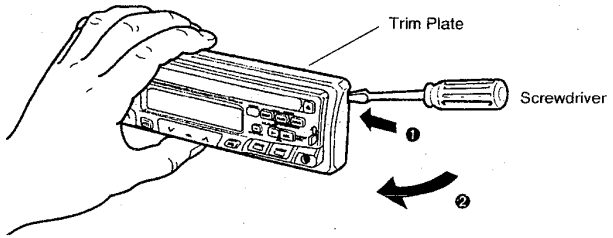
3. Plug the Power Connector ⑩.



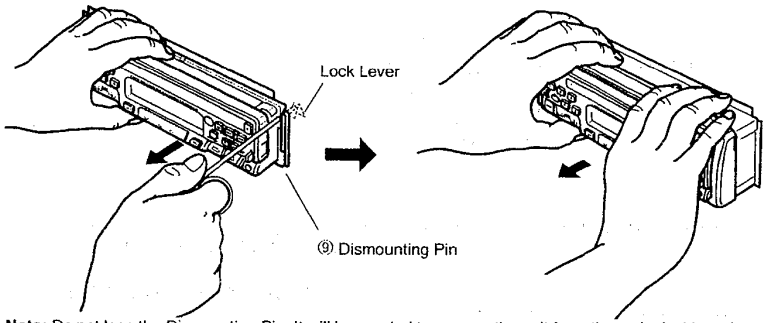
4. After installation reconnect the negative (–) battery terminal.

To Remove the Unit

a) Remove the trim plate with a screwdriver as shown in the figure.



b) Pull out the unit while pushing the lock lever using Dismounting Pin ⑨
c) Remove the unit pulling with both hands.



Note: Do not lose the Dismounting Pin. It will be needed to remove the unit form the car's dashboard.

Installation Guide continued

Anti-Theft System

This unit is equipped with a removable faceplate. By removing this faceplate, the radio becomes totally inoperable. The security indicator will blink. (Only for CQ-DP655EUC/CQ-DP640EUC/CQ-DPX100EU)

To Remove the Removable Face Plate

(1) Switch off the power.

(2) Press the release button (⏏). The removable face plate will be released.

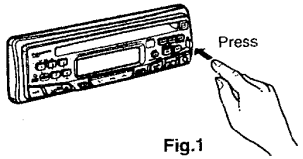


Fig.1

(3) Remove the removable face plate by pulling on the right side of the unit. Place the removable face plate in a supplied case.

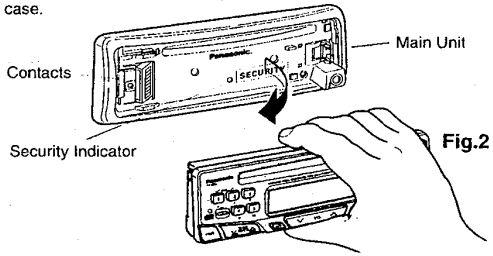


Fig.2

<Only for CQ-DP655EUC / CQ-DP640EUC / CQ-DPX100EU>

Warning Alarm and Security Indicator

The security indicator blinks when the removable face plate is removed from the unit. Furthermore, the alarm will set off for 1 minute when an attempt is made to remove the unit from the mounting collar.

Activate Warning Alarm and Security Indicator

1.Press and hold SEL for more than 4 seconds when the power is ON. "ALRM ON" is displayed, and the security indicator and Warning Alarm turn ON.

Note: The ALARM mode is inactivated when it is shipped.

2.To check whether the unit is set in the ALARM ON mode, make sure that the security indicator blinks when the removable face plate is removed.

Display			Security Indicator	Warning Alarm
LEd	Disappears	On	Blinks	ON
			(Press SEL for more than 4 seconds.)	
LEd	Disappears	OFF	OFF	OFF

Caution:

1.Warning Alarm malfunctions when not using the exclusive supplied mounting collar.

2.When removing or installing the unit, make sure that it is in the ALARM OFF mode.

3.When the Warnig Alarm is activated by mistake, or when you want to remove the unit, the Warning Alarm and the security indicator functions can be canceled by the following steps of procedure.

- Install the removable face plate.
- Disconnect the power connector.

(4) As shown in Fig.3, insert the removable face plate with the arrow pointing toward the removable face plate case until you hear a "click". Keep the removable face plate in the case. Then, you can bring the plate safety.

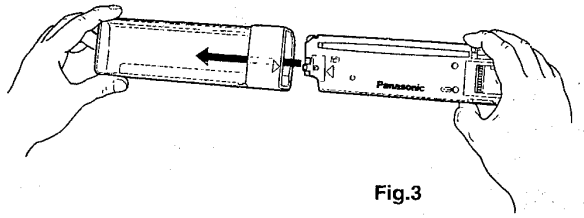


Fig.3

To install the Removable Face Plate

(1) Slide the left side of the removable face plate in place.

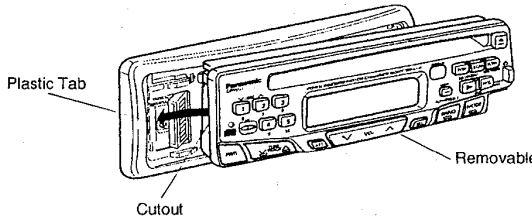


Fig.4

(2) Press the right end of the removable face plate until "click" is heard.

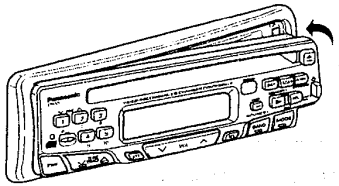


Fig.5

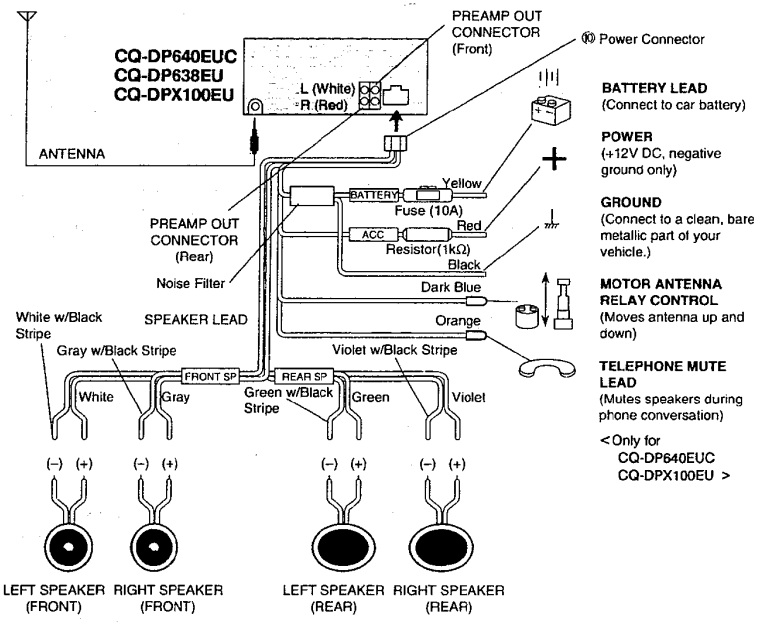
Caution:

1. Before removing the removable face plate, make sure the power is off.
2. This removable face plate is not water-proof. Do not expose it to water or excessive moisture.
3. Do not remove the removable face plate, while driving your car.
4. Do not place the removable face plate on the dashboard or nearby areas where the temperature rises to high levels.
5. Do not touch the contacts on the removable face plate or on the main unit, since this may result in poor electrical contacts.
6. If dirt or other foreign substances get on the contacts, wipe them with a clean, dry cloth.

Installation Guide continued

<Only for CQ-DP640EUC/CQ-DP638EU/CQ-DPX100EU >

Caution:
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove the covering of the leads about 5 mm long from their end before connecting.
- Be sure to connect the ground lead (black) to the car chassis first before connecting the other leads to the specified wires of the car.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.



BATTERY LEAD
(Connect to car battery)

POWER
(+12V DC, negative ground only)

GROUND
(Connect to a clean, bare metallic part of your vehicle.)

MOTOR ANTENNA RELAY CONTROL
(Moves antenna up and down)

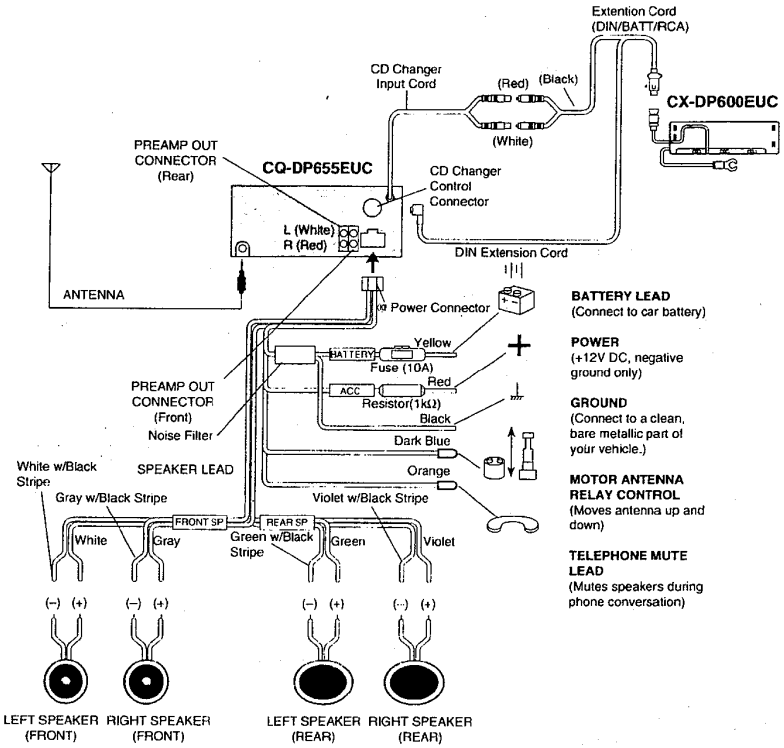
TELEPHONE MUTE LEAD
(Mutes speakers during phone conversation)

<Only for CQ-DP640EUC CQ-DPX100EU >

<Only for CQ-DP655EUC>

- This unit can be connected to an optional CD changer (CX-DP600EUC).
- For connection to a CD changer, refer to the operating instructions of the CD Changer (CX-DP600EUC).

Caution:
- To prevent damage to the unit, be sure to follow the connection diagram below.
- Remove the covering of the leads about 5 mm long from their end before connecting.
- Be sure to connect the ground lead (black) to the car chassis first before connecting the other leads to the specified wires of the car.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.



BATTERY LEAD
(Connect to car battery)

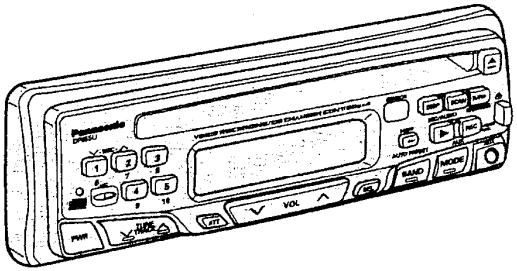
POWER
(+12V DC, negative ground only)

GROUND
(Connect to a clean, bare metallic part of your vehicle.)

MOTOR ANTENNA RELAY CONTROL
(Moves antenna up and down)

TELEPHONE MUTE LEAD
(Mutes speakers during phone conversation)

Troubleshooting



❒ When Something Doesn't Work

Check the charts on the right side for possible causes and solutions to any problem you might be experiencing. Some simple checks or minor adjustments may eliminate the problem.

❒ Error Display Messages

E1	Displays when the compact disc is dirty or upside down. The disc eject automatically.
E2	Displays when compact disc is scratched. The disc eject automatically.
E3	Displays when the compact disc stops operating for some reason. Please turn off the car engine (ACC off) and remove the fuse from yellow lead for 1 minute. Then reinstall the fuse.
0000	Displays when there is no disc in the magazine. (Only for CQ-DP655EUC)

????!

❒ Troubleshooting Tips

PROBLEM	POSSIBLE CAUSE	PROBABLE SOLUTION
Unit won't turn on.	Dead vehicle battery.	Charge vehicle battery.
	Ignition not on.	Turn ignition to On or Accessory.
	Bad power line connection.	Check connections.
	Fuse burned out.	Replace fuse.
Radio has static.	Antenna not hooked up.	Hook up antenna.
	Close to high power lines.	Move away from high power lines.
Radio memory buttons don't work.	Not holding buttons down long enough.	Press and hold buttons for more than 2 seconds.
No sound can be heard even if the disc is properly loaded.	The compact disc is inverted.	Insert the disc with label side facing up.
	The compact disc is very dirty.	Try to clean the compact disc by instructions of disc cleaning.
	The temperature inside the car is more than 140°F (60°C).	Give the interior a chance to cool down before using the unit.
	Excessive moisture.	Wait for a while before using the unit.
	Wiring connection is not properly done.	Confirm all wiring connection such as power cord, speaker cords, etc.
	Volume control is at "minimum" position.	Adjust the volume control to the proper level.
	Fuse of amplifier is blown out.	Replace the fuse with the correct rating.
Sound distorted due to vibration.	Installation method is bad.	Fix the unit securely.
Inverted sound (Left/Right connections).	The speaker cords are inverted.	Check the speaker cords.
No sound from front or rear speakers.	The fader control is set on the wrong position.	Adjust the fader control of the unit correctly.
Sound distorted sometimes.	The compact disc may be defective.	Try to replace the disc with another one.
	The compact disc is dirty.	Try to clean the compact disc by instructions of disc cleaning.
A compact disc is sometimes ejected. (Display shows "E1", an error message.)	The pickup lens is dirty.	Clean the lens. (Use CD lens cleaning disc.)

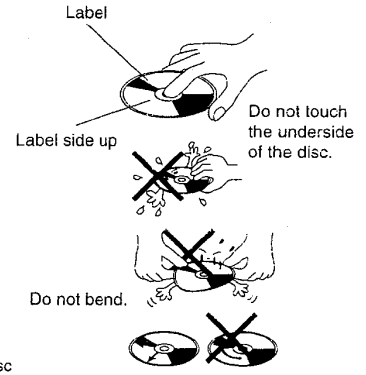
Special Notes

❒ Notes on Compact Discs

USE ONLY DISCS CARRYING THIS LABEL

COMPACT disc DIGITAL AUDIO

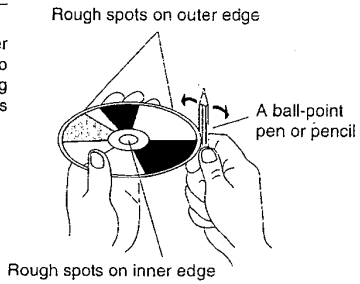
- Handle discs carefully.
- Keep discs clean.
- Do not scratch or place stickers on discs.
- Do not bend discs.
- Keep discs in their cases when not using them.
- Do not place discs:
  1. In direct sunlight.
  2. In dirty, dusty or damp areas.
  3. Near the vehicle heater.
  4. On the seats or dashboard.



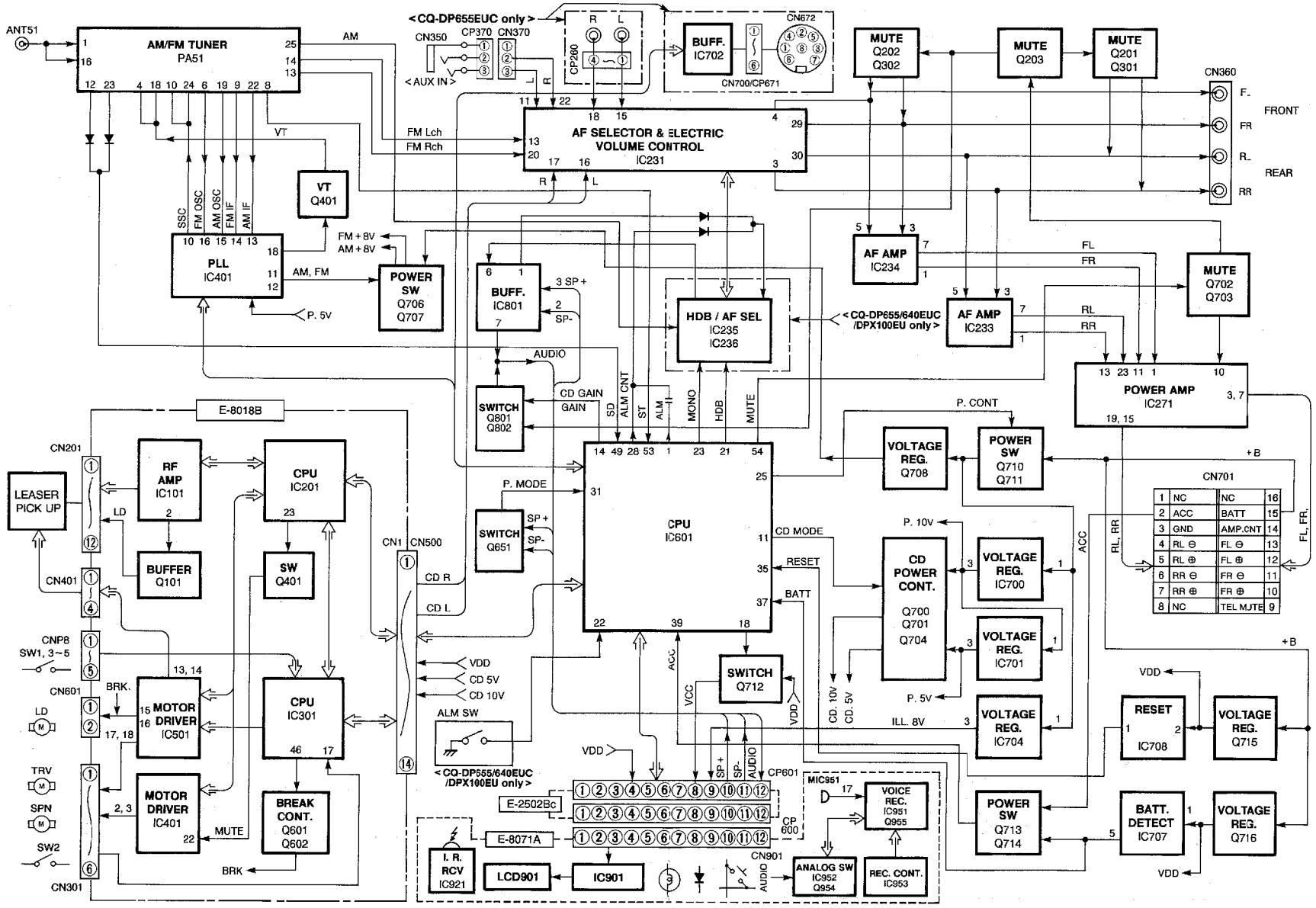
Disc Cleaning
Use a dry, soft cloth to wipe the surface. If the disc is soiled, use a soft cloth slightly dampened with isopropyl (rubbing) alcohol. Never use solvents such as benzine, thinner, conventional record cleaner, or household cleaners as they may mar the surface of the disc.

❒ A Caution on New Discs

A new disc may have rough spots on its inner and outer edges. These rough edges may cause the CD player to reject the disc. Remove these rough edges by rubbing the inner and outer edges with a pen or pencil as shown at right.

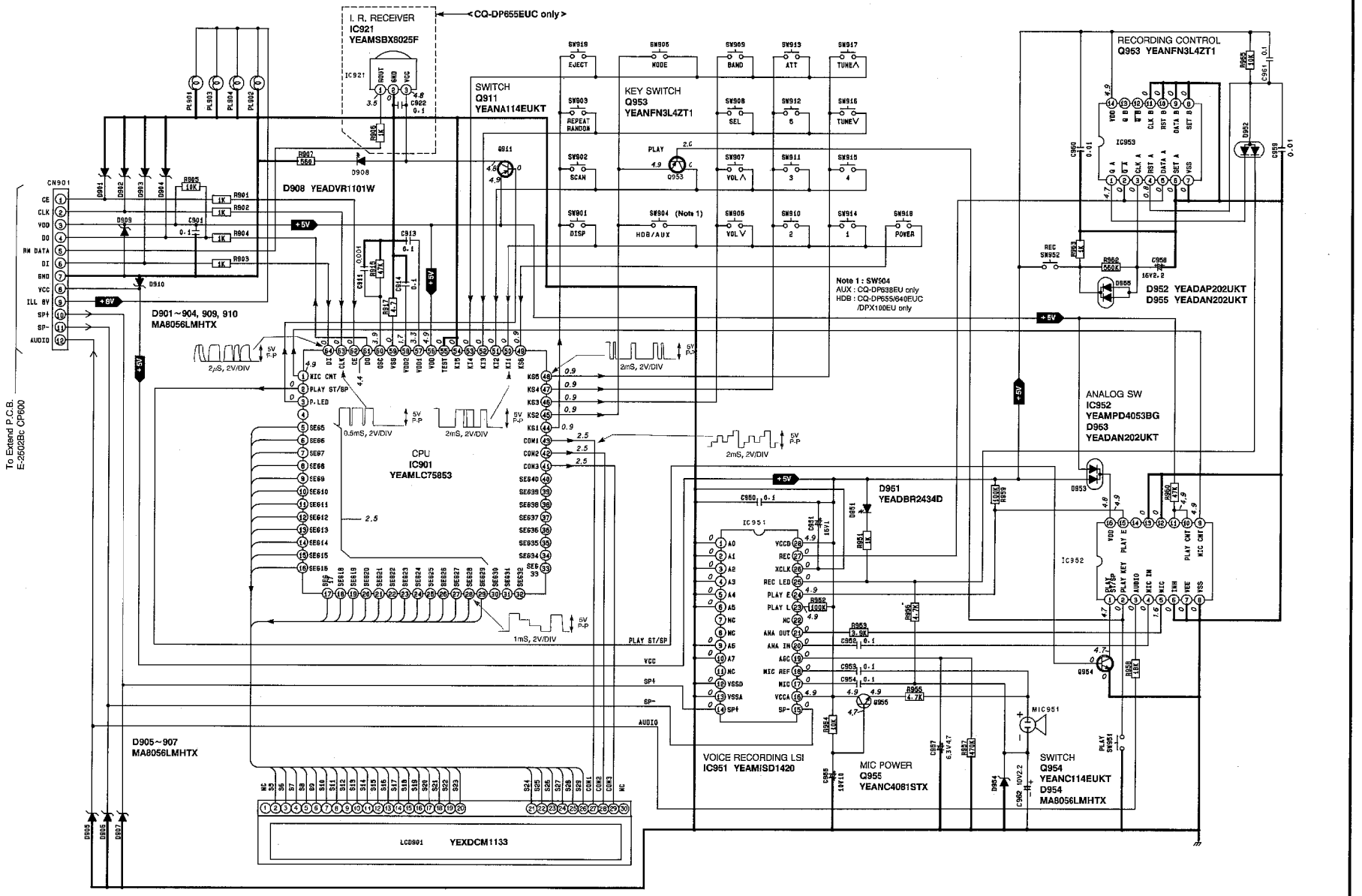


BLOCK DIAGRAM MODELS CQ-DP655/640EUC/638EU/DPX100EU



Removable Face High-Power CD Player / Receiver

SCHEMATIC DIAGRAM MODELS CQ-DP655/640EUC/638EU/DPX100EU (Display Block)

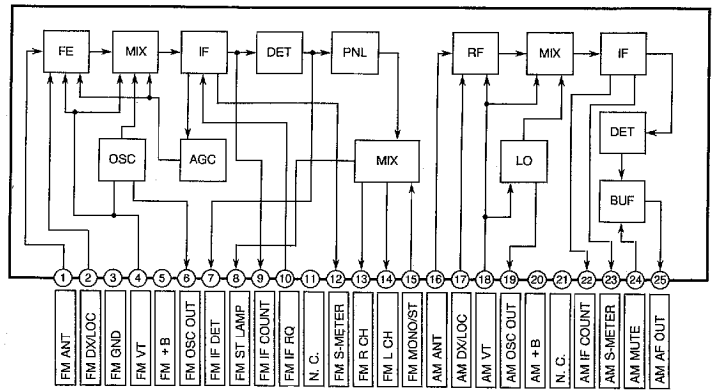


Removable Face High-Power CD Player / Receiver

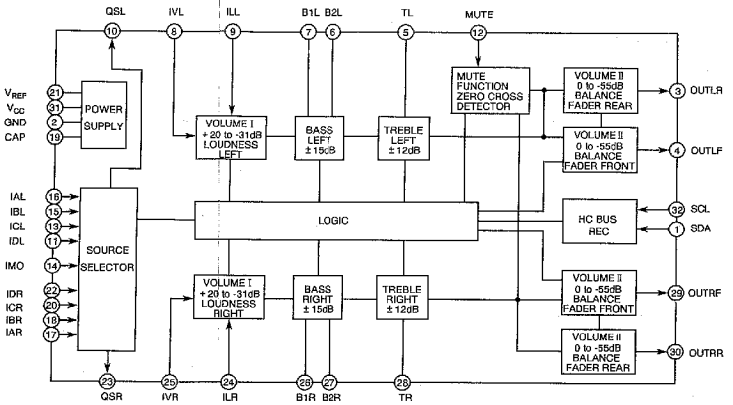
PACKAGE AND IC BLOCK DIAGRAM

<Main Block>

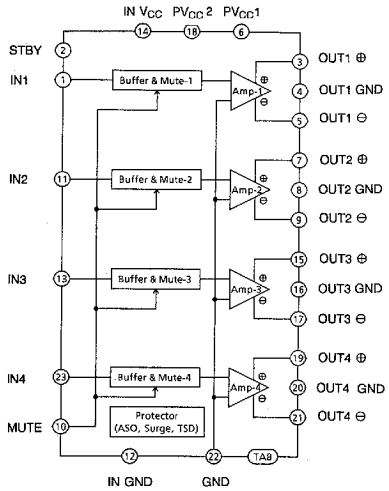
● PA51 YEAU03SMX07



● IC231 YEAMEA6320TT

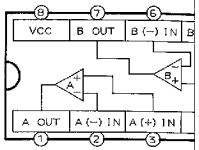


● IC271 YEAMHA13150A

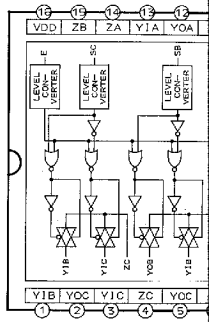


● IC233, 234, 235 YEAMUPC4570C

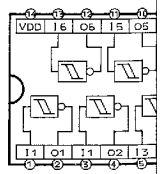
● IC801 YEAMM5218AP



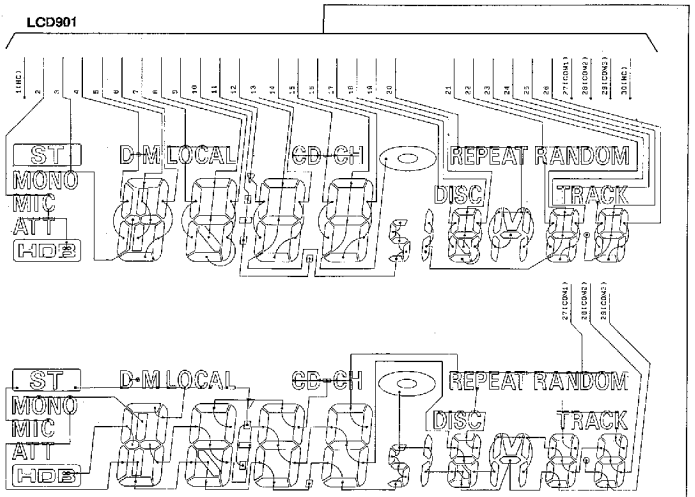
● IC236 <Main P.C
IC952 <Display P
YEAMPD4053BG



● IC702 MN4584BST



WIRING DIAGRAM MODELS CQ-DP655/640EUC/638EU/DPX100EU (Display Block)

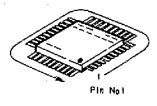


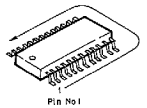
Pin	IC921	IC952	IC953
1	3.5	4.7	4.7
2	0	0	0
3	4.8	0	0
4		0	0.8
5		1.6	0
6		0	0
7		0	0
8		0	0
9		4.9	0
10		4.9	0
11		4.9	0
12		0	—
13		0	—
14		—	4.9
15		4.9	
16		4.8	

Pin	IC951		
1	0	15	0
2	0	16	4.9
3	0	17	0
4	0	18	0
5	0	19	0
6	0	20	0
7	—	21	0
8	—	22	—
9	0	23	4.9
10	0	24	4.9
11	—	25	0
12	0	26	0
13	0	27	0
14	0	28	4.9

	B	C	E
Q911	0	4.8	4.9
Q953	2.0	0	4.9
Q954	0	4.7	0
Q955	4.7	4.9	4.9

ICs & Transistors



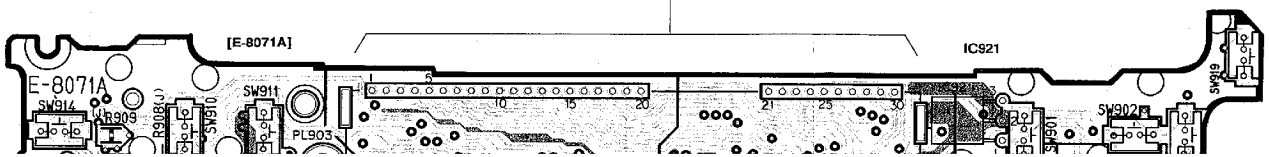


IC901	64Pin

IC951	28Pin
IC952	16Pin
IC953	14Pin

IC921	3Pin

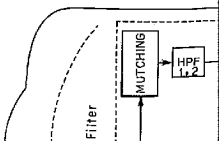
● Transistors



SW901 : DISP Switch
SW902 : SCAN Switch
SW903 : R/R/RPT/RND Switch
SW904 : HDB Switch
SW905 : MODE/AUX Switch

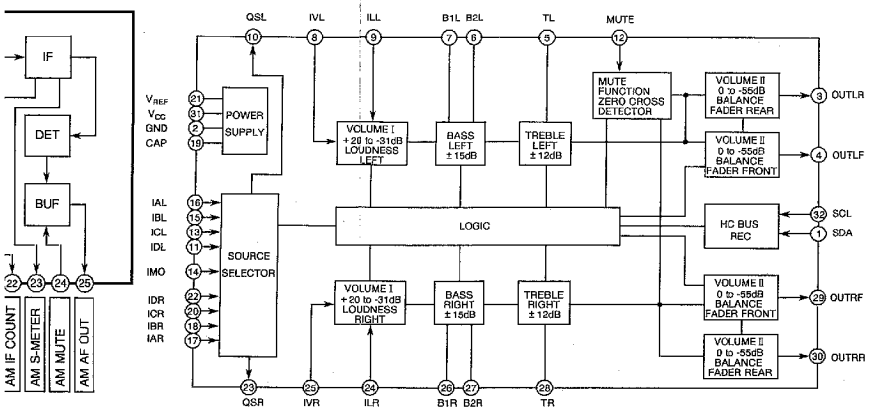
<Display Block>

● IC921 YEAMSBX8

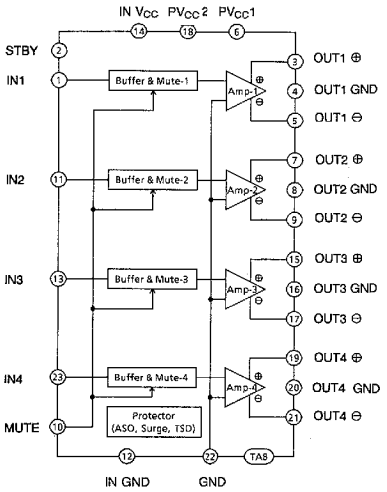


DIAGRAM

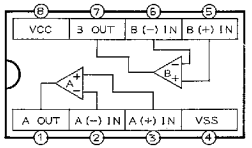
• IC231 YEAMEA6320TT



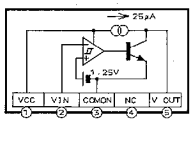
• IC271 YEAMHA13150A



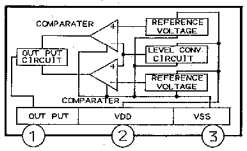
• IC233, 234, 235 YEAMUPC4570C
• IC801 YEAMM5218AP



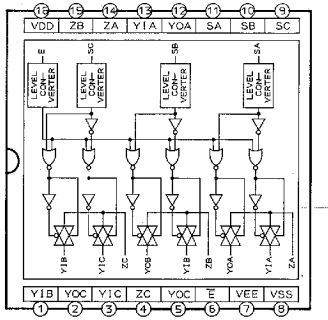
• IC707 YEAMM51945AL



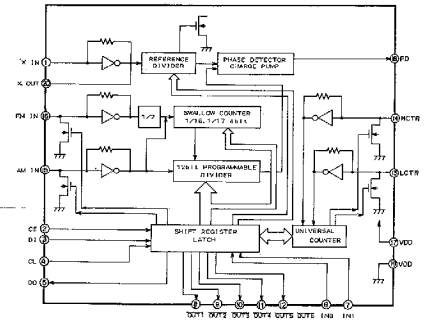
• IC708 MN1280Q



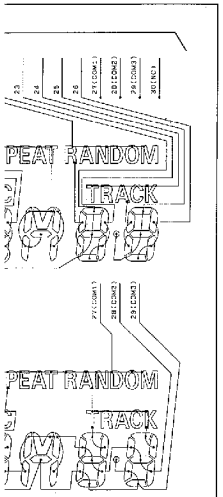
• IC236 <Main P.C.B.>
IC952 <Display P.C.B.>
YEAMPD4053BG



• IC401 YEAMLC7216MC



EUC/638EU/DPX100EU (Display Block)

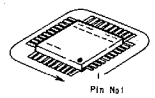


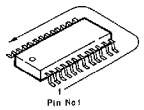
Pin	IC921	IC952	IC953
1	3.5	4.7	4.7
2	0	0	0
3	4.8	0	0
4		0	0.8
5		1.6	0
6		0	0
7		0	0
8		0	0
9		4.9	0
10		4.9	0
11		4.9	0
12		0	—
13		0	—
14		—	4.9
15		4.9	
16		4.8	

Pin	IC951		
1	0	15	0
2	0	16	4.9
3	0	17	0
4	0	18	0
5	0	19	0
6	0	20	0
7	—	21	0
8	—	22	—
9	0	23	4.9
10	0	24	4.9
11	—	25	0
12	0	26	0
13	0	27	0
14	0	28	4.9

	B	C	E
Q911	0	4.8	4.9
Q953	2.0	0	4.9
Q954	0	4.7	0
Q955	4.7	4.9	4.9

ICs & Transistors





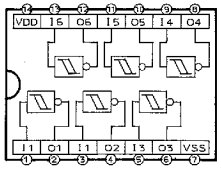
IC901	64Pin

IC951	28Pin
IC952	16Pin
IC953	14Pin

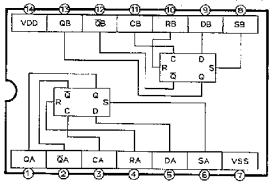
IC921	3Pin

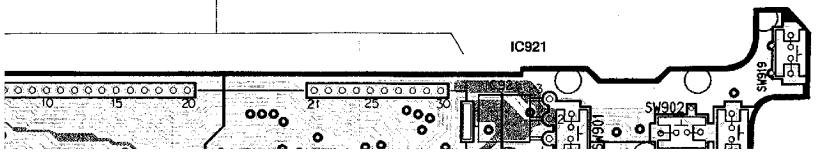
• Transistors

• IC702 MN4584BST1



• IC953 YEAMPD4013T2

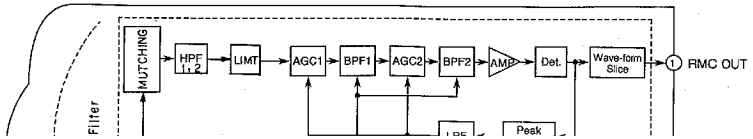




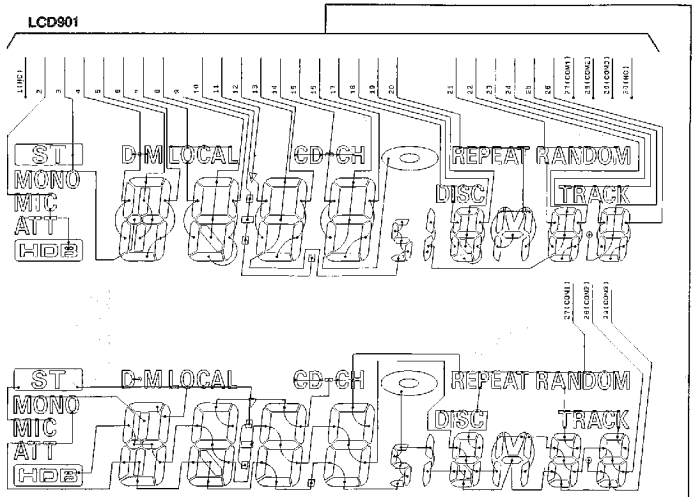
SW901 : DISP Switch
SW902 : SCAN Switch
SW903 : R/R/RPT/RND Switch
SW904 : HDB Switch
SW905 : MODE/AUX Switch

< Display Block >

• IC921 YEAMSBX8025F



WIRING DIAGRAM MODELS CQ-DP655/640EUC/638EU/DPX100EU (Display Block)

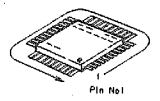


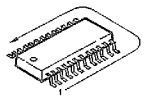
Pin	IC921	IC952	IC953
1	3.5	4.7	4.7
2	0	0	0
3	4.8	0	0
4		0	0.8
5		1.6	0
6		0	0
7		0	0
8		0	0
9		4.9	0
10		4.9	0
11		4.9	0
12		0	—
13		0	—
14		—	4.9
15		4.9	
16		4.8	

Pin	IC951		
1	0	15	0
2	0	16	4.9
3	0	17	0
4	0	18	0
5	0	19	0
6	0	20	0
7	—	21	0
8	—	22	—
9	0	23	4.9
10	0	24	4.9
11	—	25	0
12	0	26	0
13	0	27	0
14	0	28	4.9

	B	C	E
Q911	0	4.8	4.9
Q953	2.0	0	4.9
Q954	0	4.7	0
Q955	4.7	4.9	4.9

ICs & Transistors



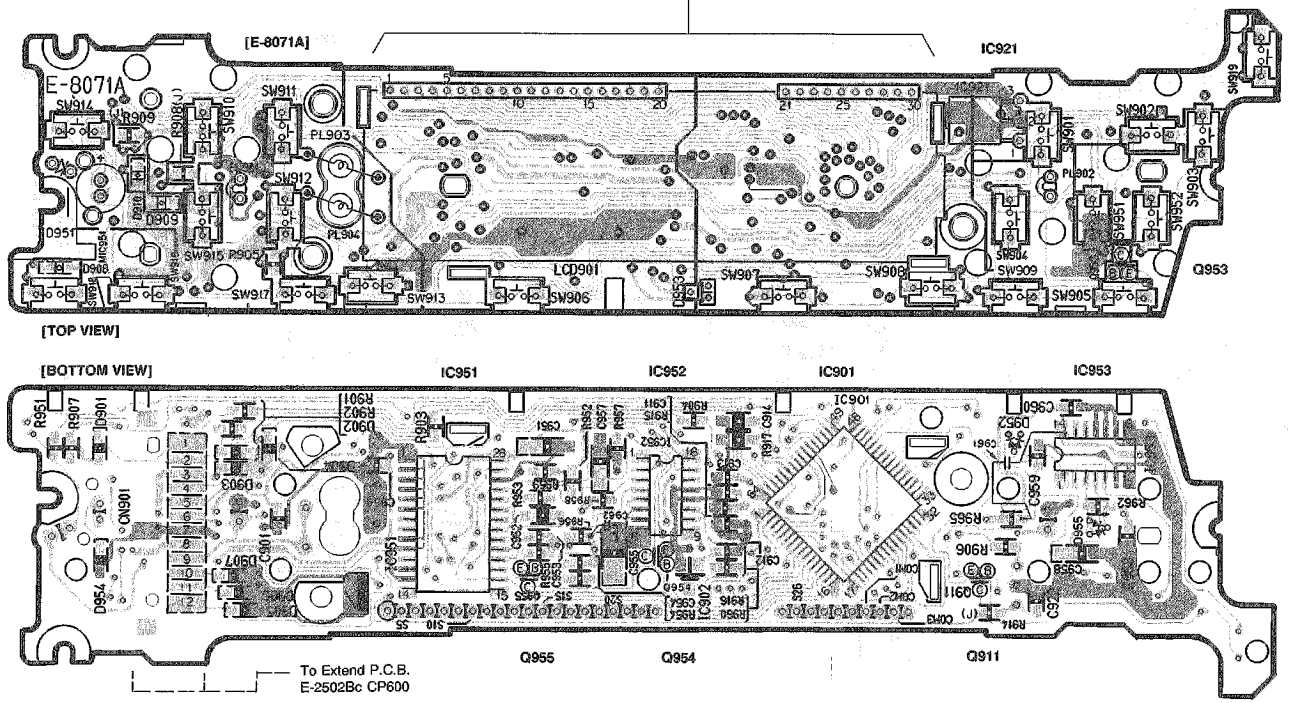


IC901	64Pin

IC951	28Pin
IC952	16Pin
IC953	14Pin

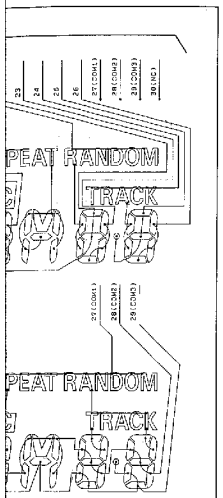
IC921	3Pin

• Transistors



SW901 : DISP Switch
SW902 : SCAN Switch
SW903 : R/R/RPT/RND Switch
SW904 : HDB Switch
SW905 : MODE/AUX Switch
SW906 : VOL Down Switch
SW907 : VOL Up Switch
SW908 : SEL Switch
SW909 : BAND/A·P Switch
SW910 : Preset 2/Track 2/7 Switch
SW911 : Preset 3/Track 3/8 Switch
SW912 : Preset 5/Track 5/10 Switch
SW913 : ATT Switch
SW914 : Preset 1/Track 1/6 Switch
SW915 : Preset 4/Track 4/9 Switch
SW916 : TUNE Down Switch
SW917 : TUNE Up Switch
SW918 : POWER Switch
SW919 : EJECT Switch
SW951 : PLAY (VOICE) Switch
SW952 : REC (VOICE) Switch

EUC/638EU/DPX100EU (Display Block)

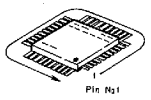


Pin	IC921	IC952	IC953
1	3.5	4.7	4.7
2	0	0	0
3	4.8	0	0
4		0	0.8
5		1.6	0
6		0	0
7		0	0
8		0	0
9		4.9	0
10		4.9	0
11		4.9	0
12		0	—
13		0	—
14		—	4.9
15		4.9	
16		4.8	

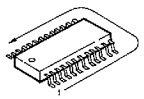
Pin	IC951		
1	0	15	0
2	0	16	4.9
3	0	17	0
4	0	18	0
5	0	19	0
6	0	20	0
7	—	21	0
8	—	22	—
9	0	23	4.9
10	0	24	4.9
11	—	25	0
12	0	26	0
13	0	27	0
14	0	28	4.9

	B	C	E
Q911	0	4.8	4.9
Q953	2.0	0	4.9
Q954	0	4.7	0
Q955	4.7	4.9	4.9

ICs & Transistors



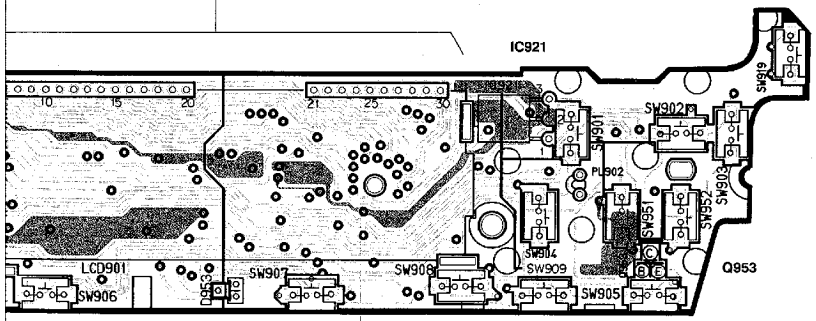
IC901	64Pin

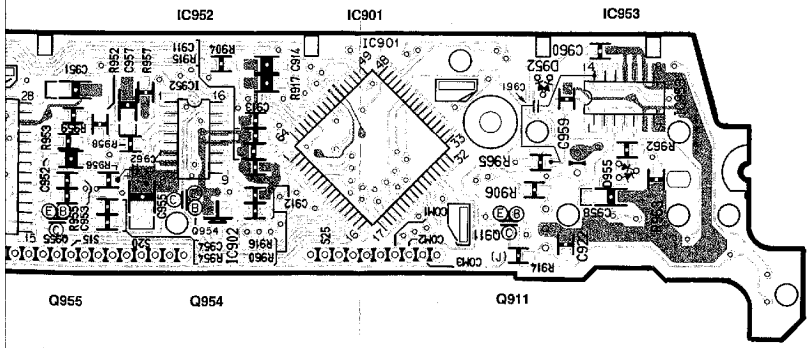


IC951	28Pin
IC952	16Pin
IC953	14Pin

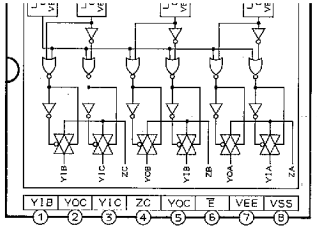
IC921	3Pin

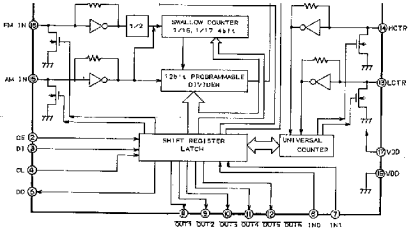
• Transistors



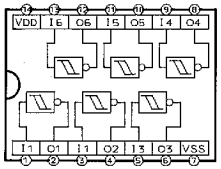


SW901 : DISP Switch
SW902 : SCAN Switch
SW903 : R/R/RPT/RND Switch
SW904 : HDB Switch
SW905 : MODE/AUX Switch
SW906 : VOL Down Switch
SW907 : VOL Up Switch
SW908 : SEL Switch
SW909 : BAND/A-P Switch
SW910 : Preset 2/Track 2/7 Switch
SW911 : Preset 3/Track 3/8 Switch
SW912 : Preset 5/Track 5/10 Switch
SW913 : ATT Switch
SW914 : Preset 1/Track 1/6 Switch
SW915 : Preset 4/Track 4/9 Switch
SW916 : TUNE Down Switch
SW917 : TUNE Up Switch
SW918 : POWER Switch
SW919 : EJECT Switch
SW951 : PLAY (VOICE) Switch
SW952 : REC (VOICE) Switch

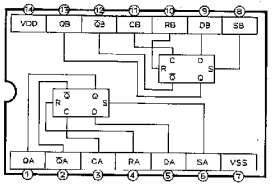




• **IC702**
MN4584BST1

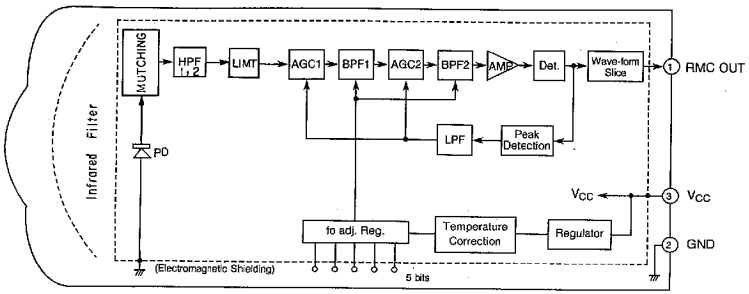


• **IC953**
YEAMPD4013T2

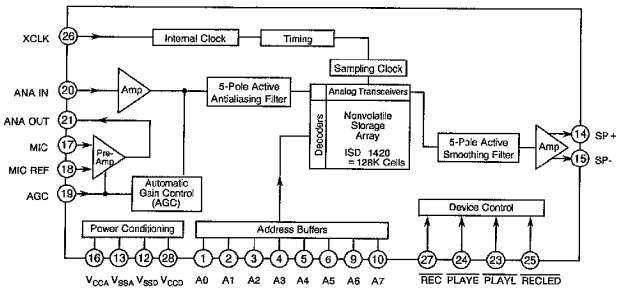


< Display Block >

• **IC921 YEAMSBX8025F**

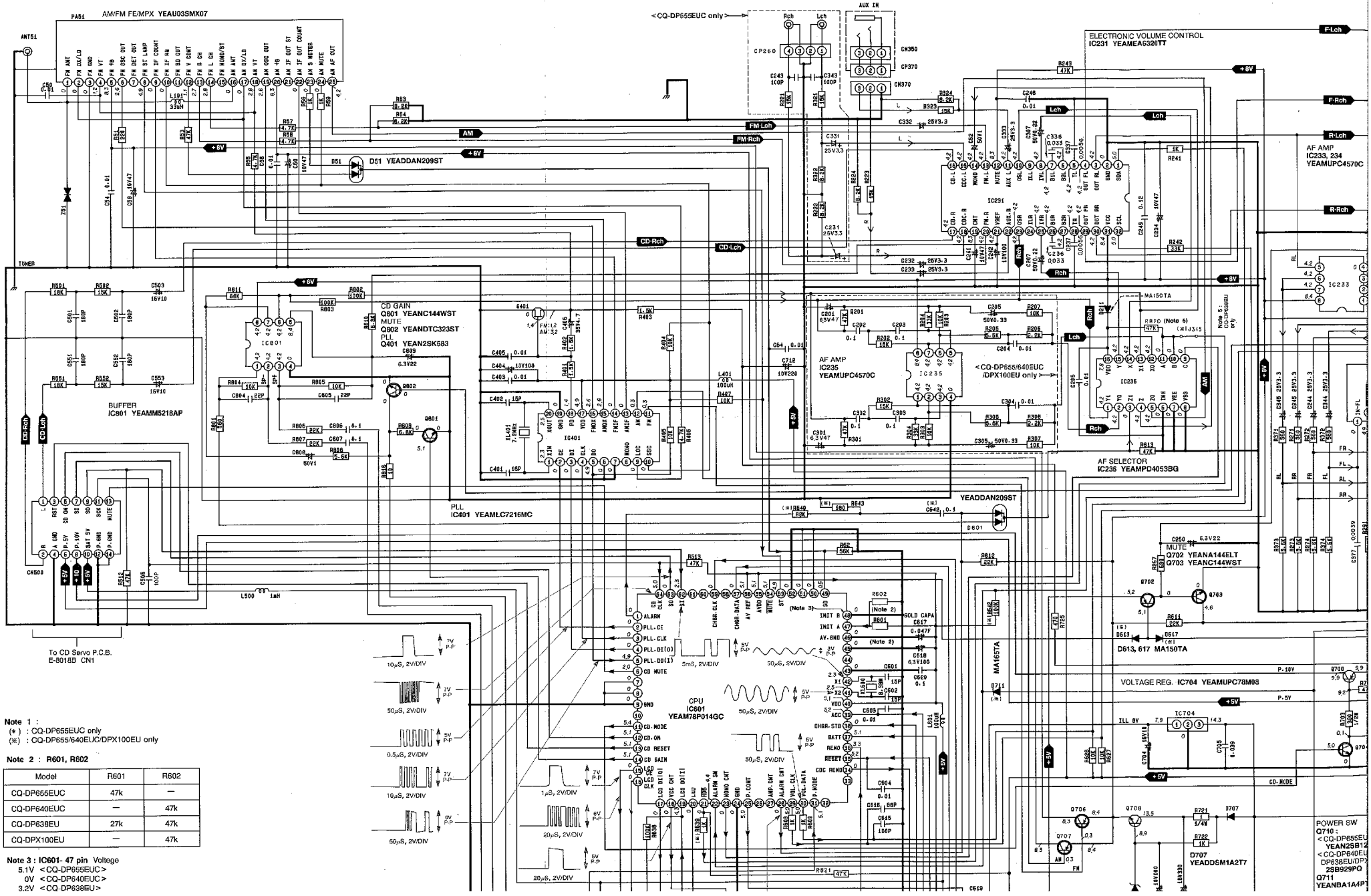


• **IC951 YEAMISD1420**



Removable Face High-Power CD Player / Receiver

SCHEMATIC DIAGRAM MODELS CQ-DP655/640EUC/638EU/DPX100EU (Main Block)



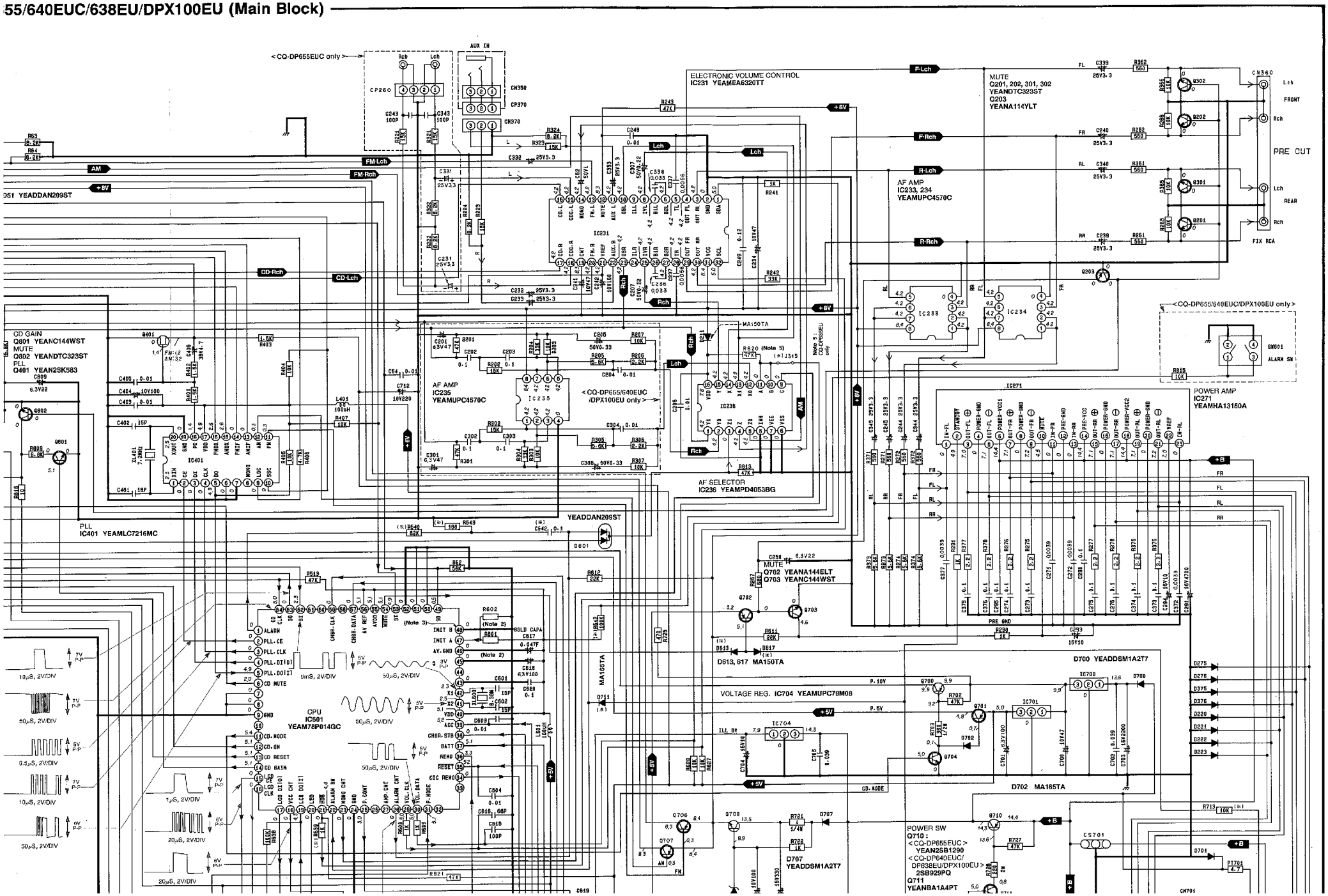
Note 1 :
(*) : CQ-DP655EUC only
(※) : CQ-DP655/640EUC/DPX100EU only

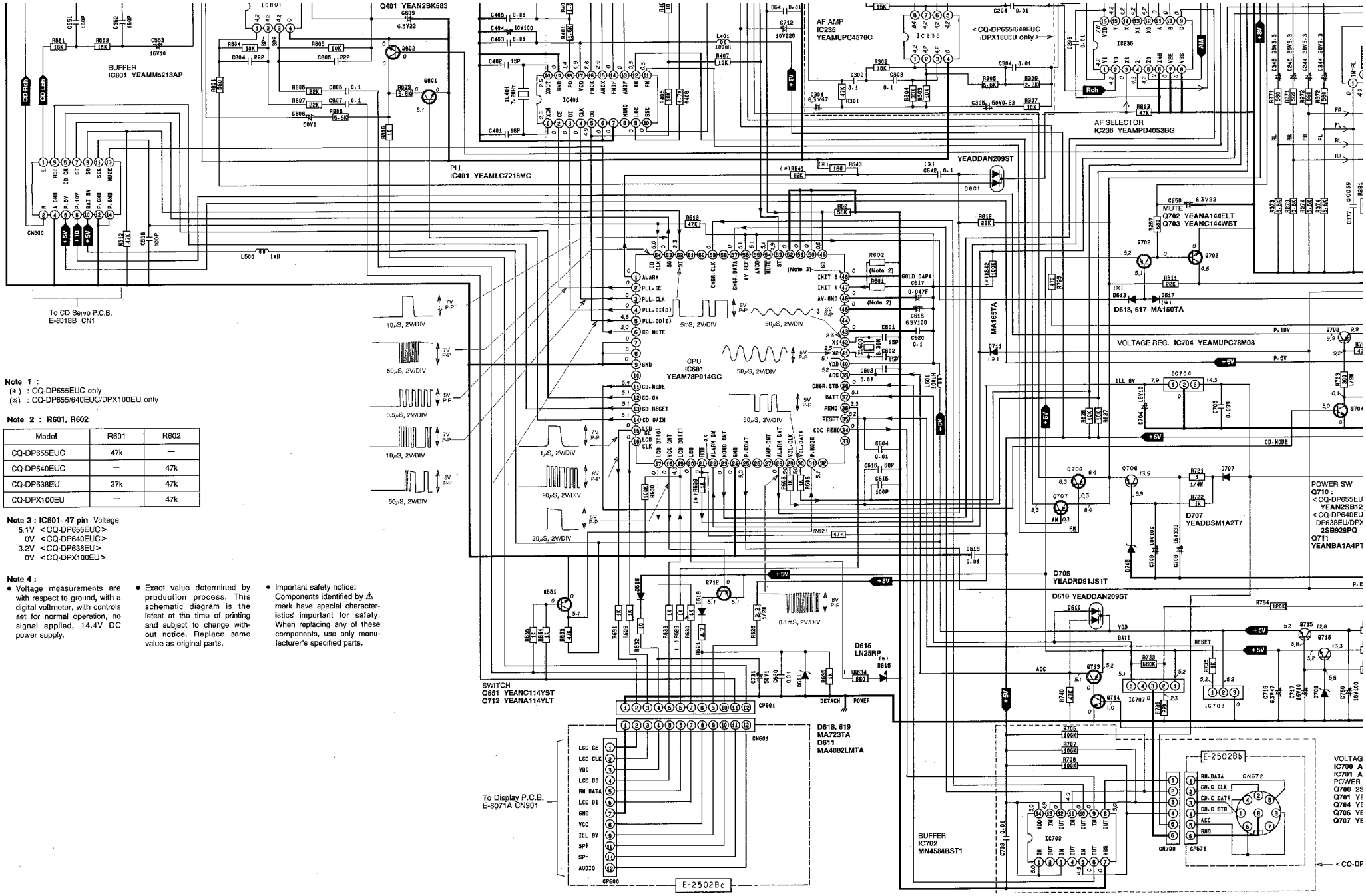
Note 2 : R601, R602

Model	R601	R602
CQ-DP655EUC	47k	—
CQ-DP640EUC	—	47k
CQ-DP638EU	27k	47k
CQ-DPX100EU	—	47k

Note 3 : IC601- 47 pin Voltege
5.1V <CQ-DP655EUC>
0V <CQ-DP640EUC>
3.2V <CQ-DP638EU>

55/640EUC/638EU/DPX100EU (Main Block)





Note 1 :
(*) : CQ-DP655EUC only
(※) : CQ-DP655/640EUC/DPX100EU only

Note 2 : R601, R602

Model	R601	R602
CQ-DP655EUC	47k	—
CQ-DP640EUC	—	47k
CQ-DP638EU	27k	47k
CQ-DPX100EU	—	47k

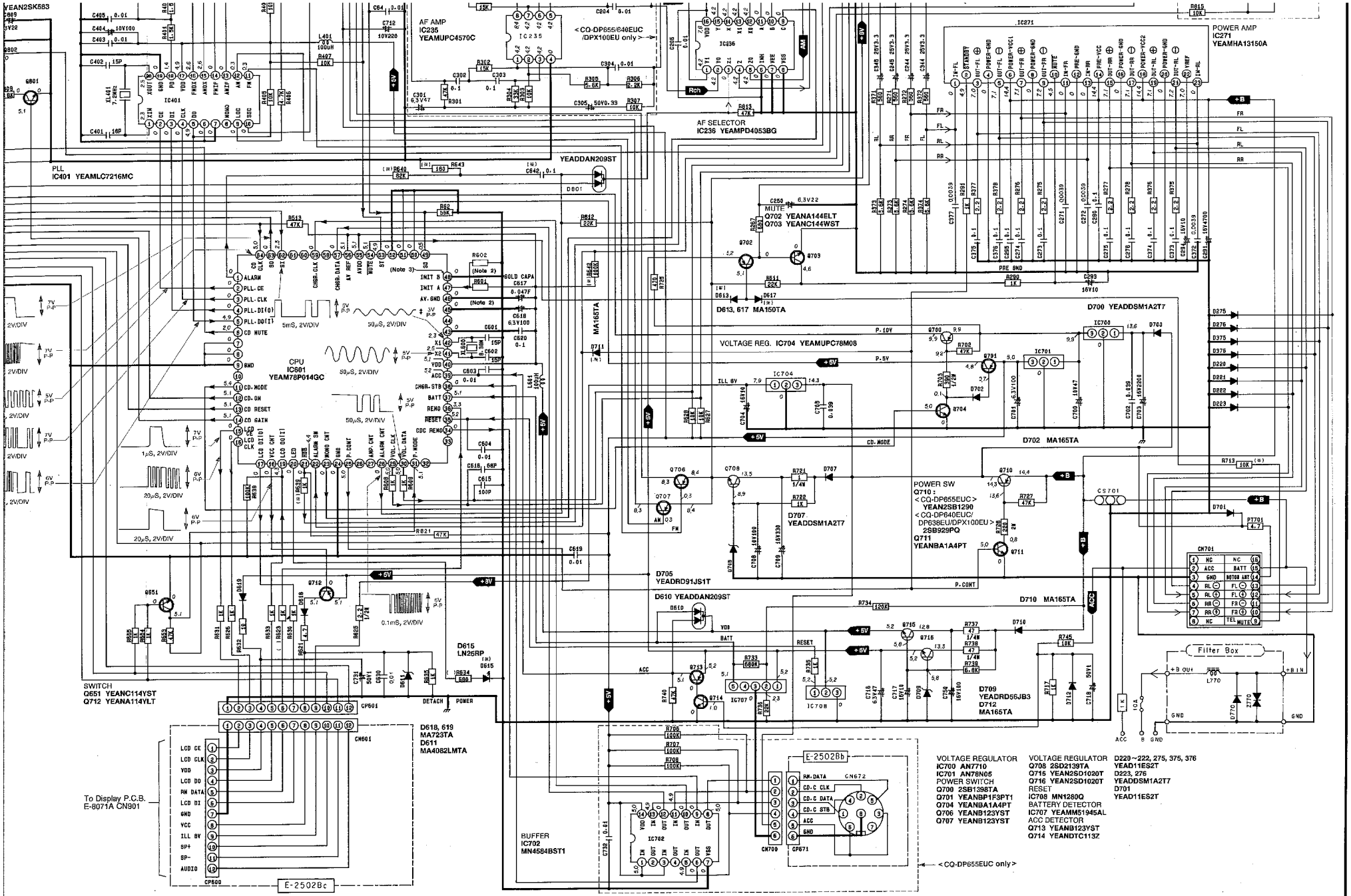
Note 3 : IC601- 47 pin Voltege
5.1V <CQ-DP655EUC>
0V <CQ-DP640EUC>
3.2V <CQ-DP638EU>
0V <CQ-DPX100EU>

Note 4 :

- Voltage measurements are with respect to ground, with a digital voltmeter, with controls set for normal operation, no signal applied, 14.4V DC power supply.
- Exact value determined by production process. This schematic diagram is the latest at the time of printing and subject to change without notice. Replace same value as original parts.
- Important safety notice: Components identified by ⚠ mark have special characteristics' important for safety. When replacing any of these components, use only manufacturer's specified parts.

CQ-DP655/640EUC/638EU/DPX100EU (Main)

Removi



CQ-DP655/640EUC/638EU/DPX100EU (Main) スミ版

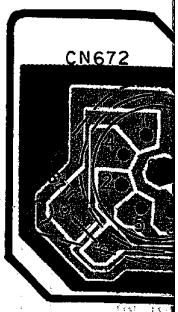
WIRING DIAGRAM MODELS CQ-DP655/640EUC/638EU/DPX100EU (Main Block)

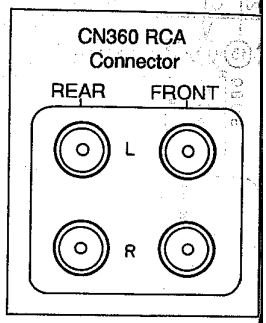
	B	C	E
Q201	0	0	0
Q202	0	0	0
Q203	0	0	0
Q301	0	0	0
Q302	0	0	0
Q651	0	5.1	0
Q700	9.2	9.9	9.9
Q701	0.7	4.8	5.0
Q702	5.1	0	5.2
Q703	0	4.6	0
Q704	5.0	0.1	0
Q706	0.3	8.3	8.4
Q707	0.3	8.3	8.4
Q708	8.9	13.5	8.4
Q710	13.6	14.3	14.4
Q711	5.0	0.8	0

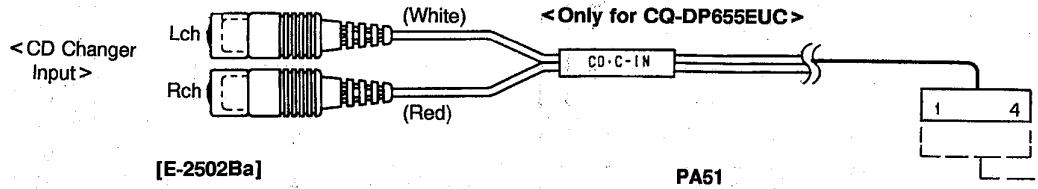
	B	C	E
Q712	0	5.1	5.1
Q713	0	5.1	5.2
Q714	1.0	0	0
Q715	5.8	12.8	5.2
Q716	5.8	13.3	5.2
Q801	5.1	0	0
Q802	0	0	0

		G	D	S
Q401	(FM)	1.4	1.2	0
	(AM)	1.4	3.2	0

Pin	IC231		
1	5.0	17	4.2
2	0	18	4.2
3	4.2	19	8.3
4	4.2	20	4.2
5	4.2	21	4.2
6	4.2	22	4.2
7	4.2	23	4.2
8	4.2	24	—
9	—	25	4.2
10	4.2	26	4.2
11	4.2	27	4.2
12	8.3	28	4.2
13	4.2	29	4.2
14	4.2	30	4.2
15	4.2	31	8.4
16	4.2	32	5.0

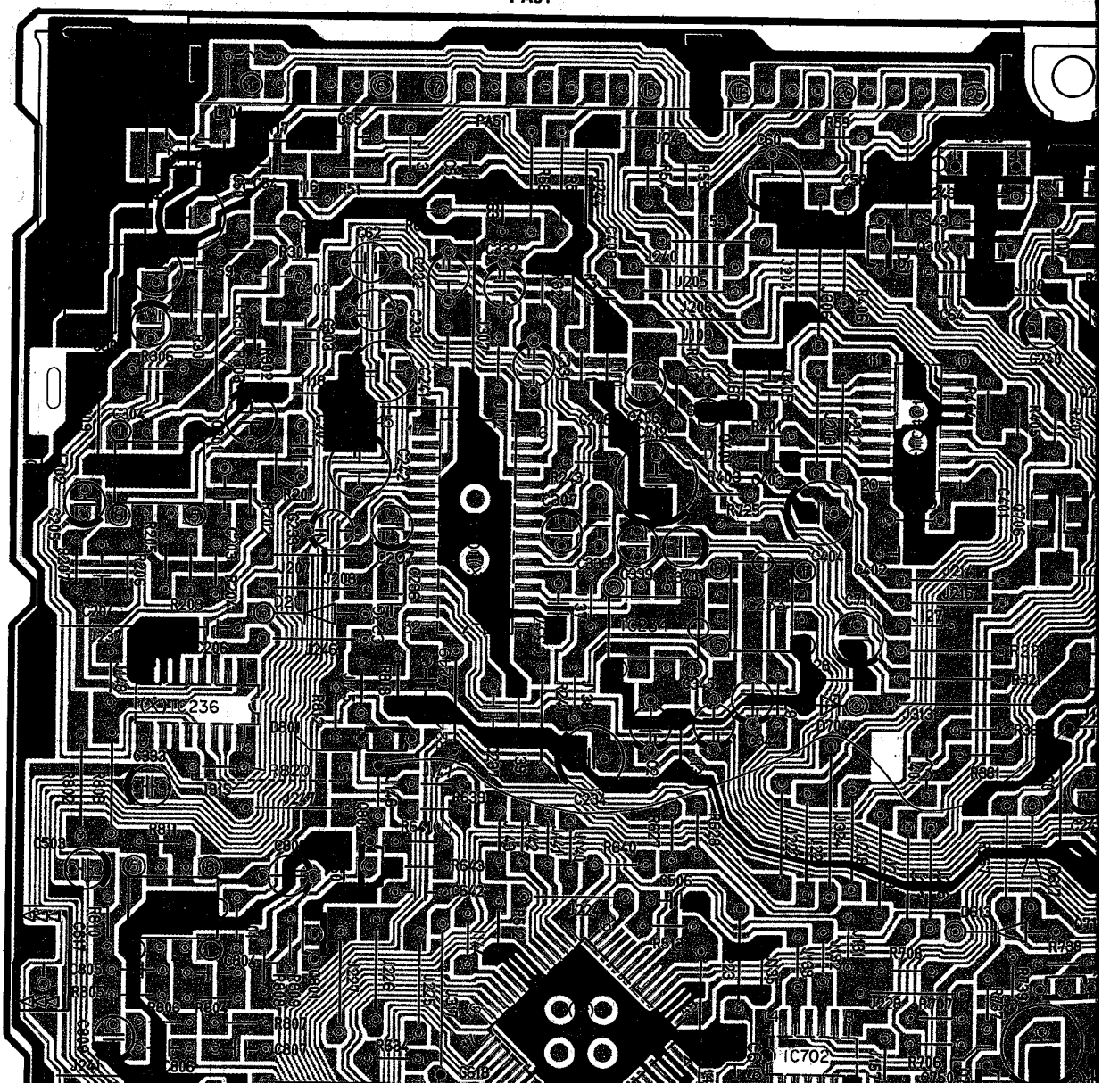




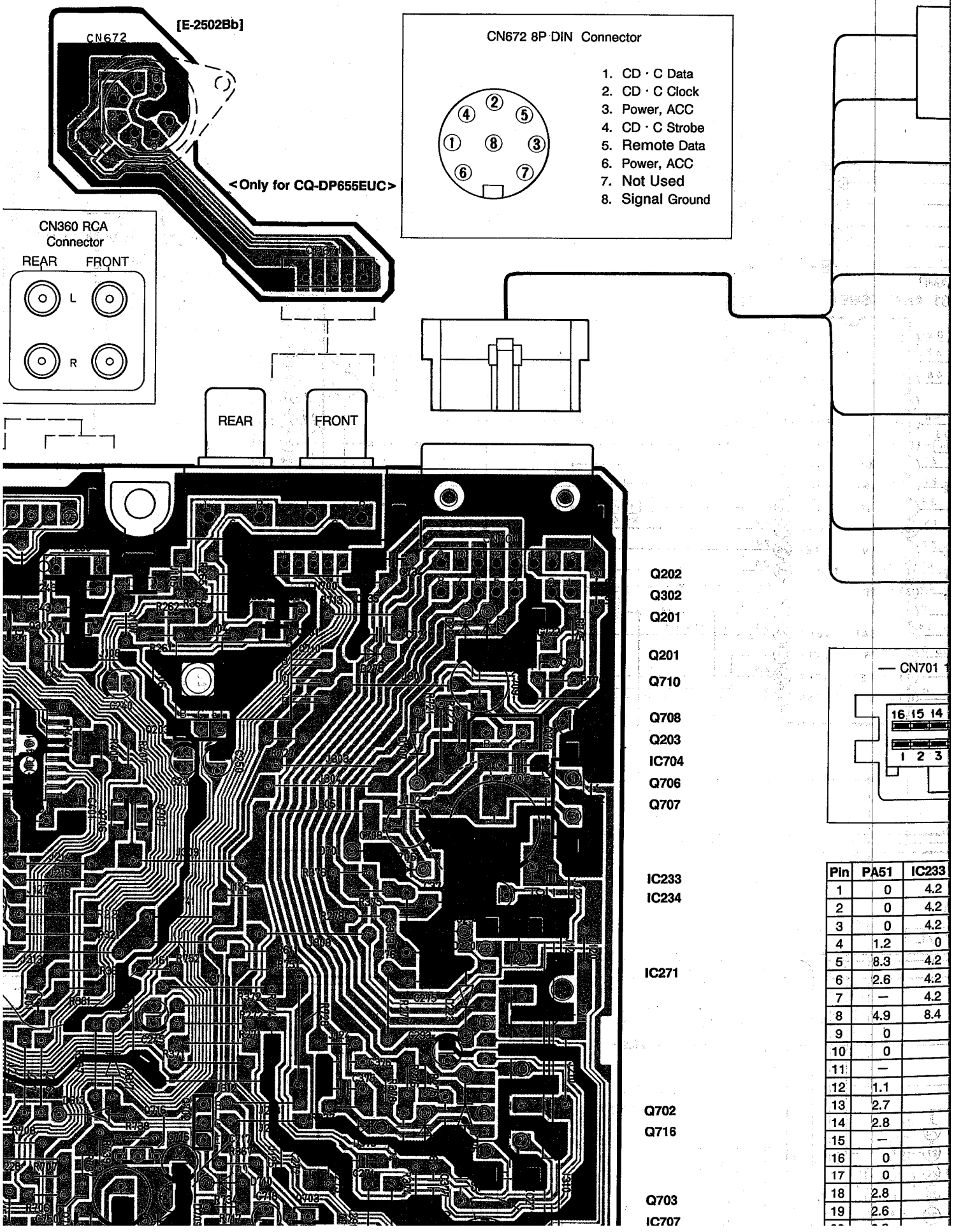


[E-2502Ba]

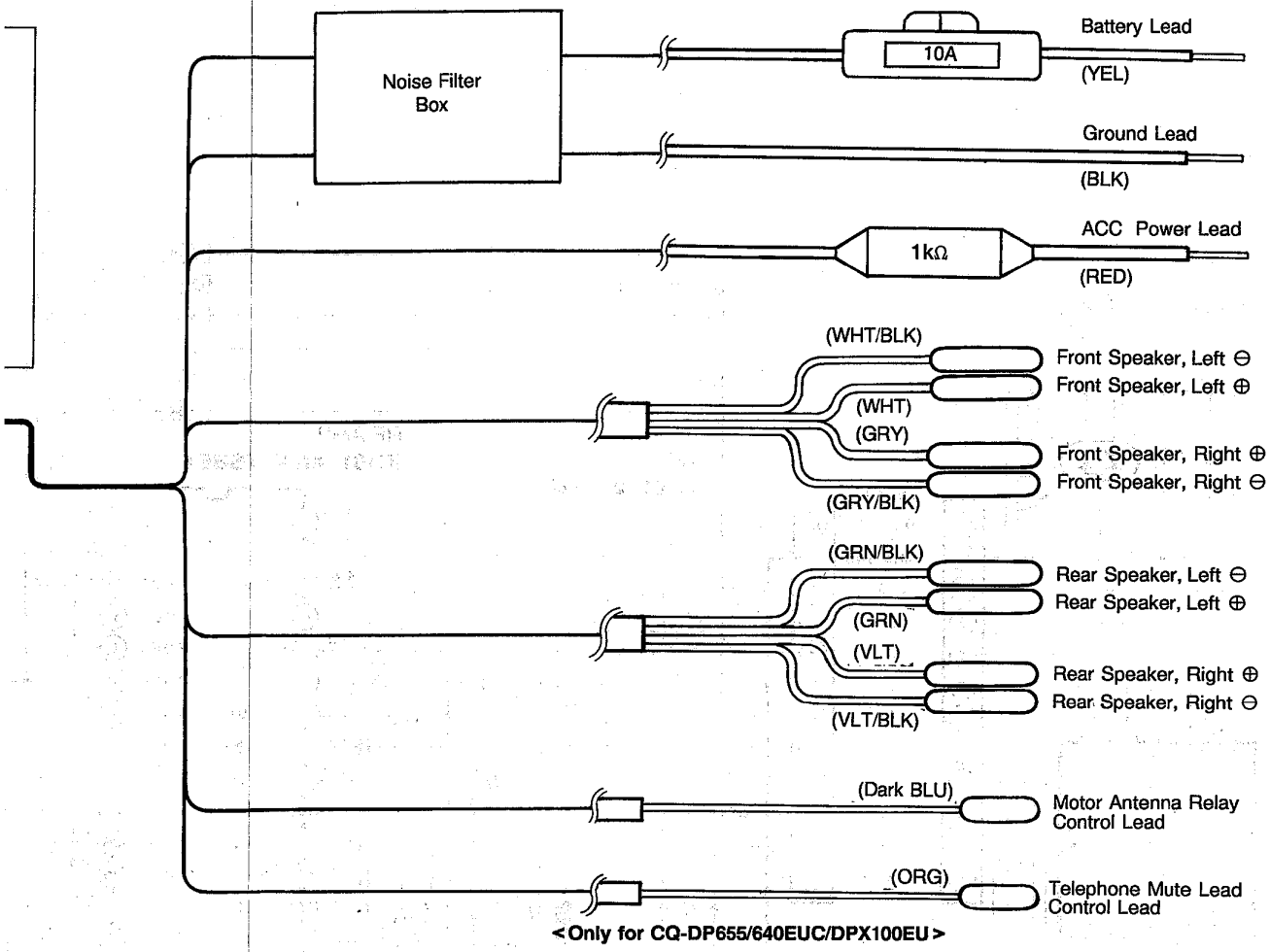
PA51



(Main Block)

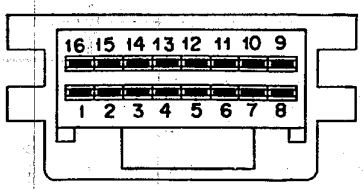


Pin	PA51	IC233
1	0	4.2
2	0	4.2
3	0	4.2
4	1.2	0
5	8.3	4.2
6	2.6	4.2
7	—	4.2
8	4.9	8.4
9	0	
10	0	
11	—	
12	1.1	
13	2.7	
14	2.8	
15	—	
16	0	
17	0	
18	2.8	
19	2.6	



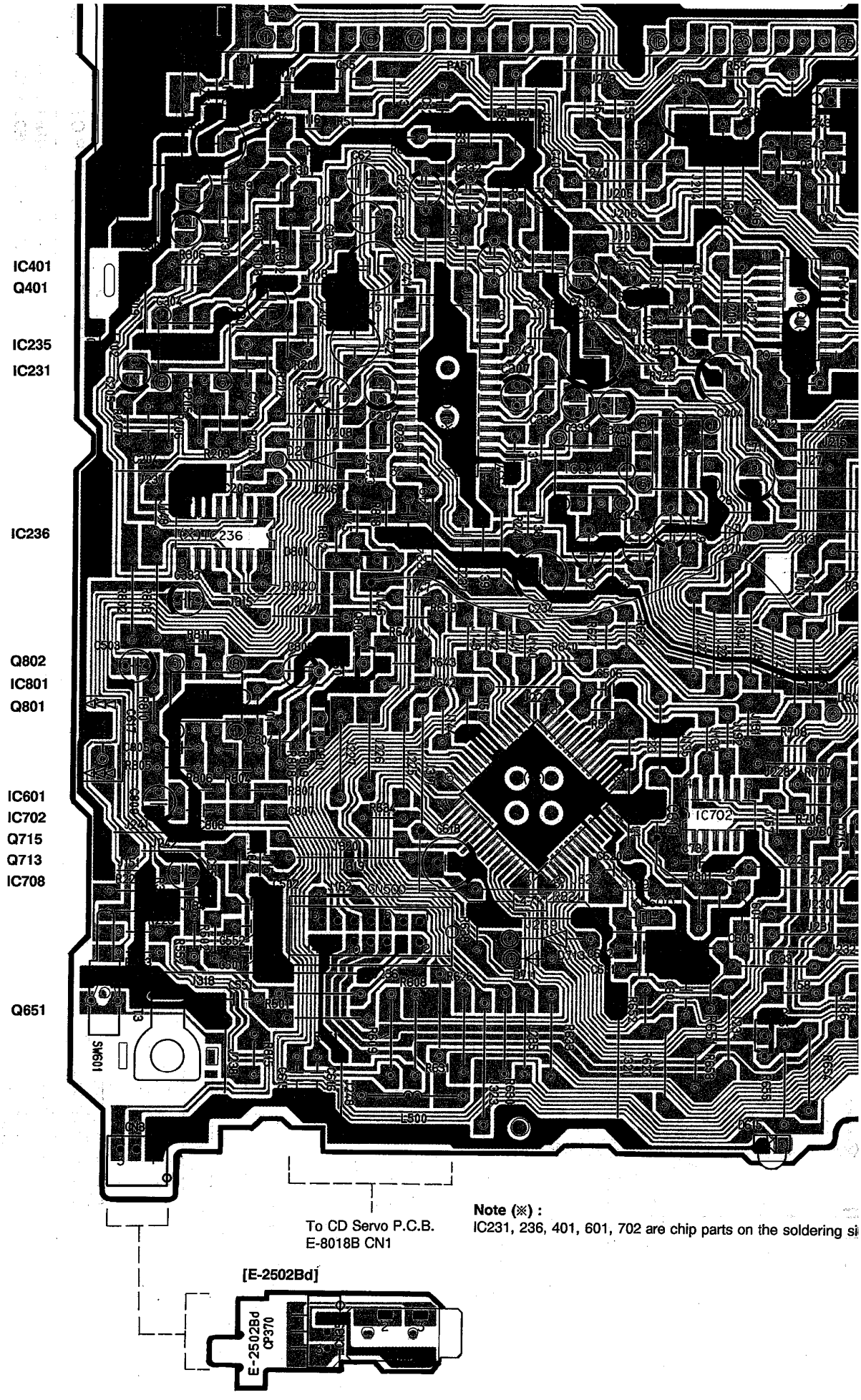
<Only for CQ-DP655/640EUC/DPX100EU>

— CN701 16Pin Connector —

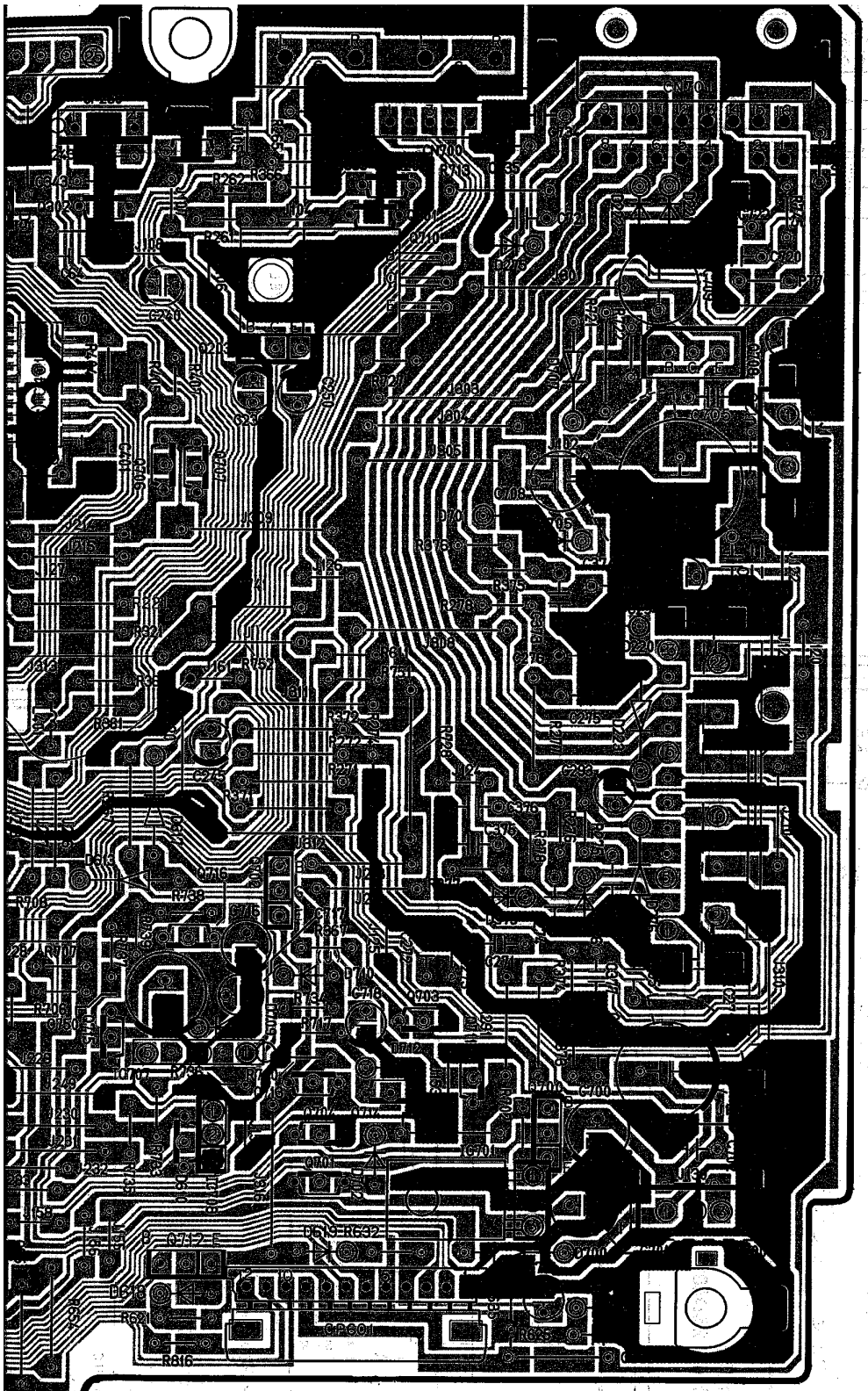


1. No Connection
2. Power Supply, ACC ⊕
3. Ground
4. Rear Speaker, Left ⊖
5. Rear Speaker, Left ⊕
6. Rear Speaker, Right ⊖
7. Rear Speaker, Right ⊕
8. No Connection
9. Telephone Mute
10. Front Speaker, Right ⊕
11. Front Speaker, Right ⊖
12. Front Speaker, Left ⊕
13. Front Speaker, Left ⊖
14. Motor Antenna Cont.
15. Power Supply, ⊕B
16. CD · C Change

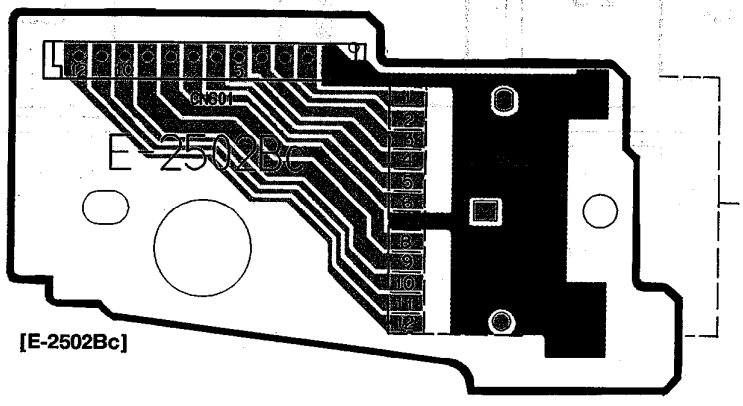
Pin	PA51	IC233	IC234	IC235	IC236	IC271	IC401	IC700	IC701	IC702	IC704	IC707	IC708	IC801
1	0	4.2	4.2	4.2	4.2	0	2.3	13.6	9.9	5.0	7.9	5.2	5.2	4.2
2	0	4.2	4.2	4.2	4.2	4.9	0	0	0	—	0	2.3	5.2	4.2
3	0	4.2	4.2	4.2	0	7.0	0	9.9	5.0	5.0	14.3	0	0	4.2
4	1.2	0	0	0	4.2	0	0			—		—		0
5	8.3	4.2	4.2	4.2	4.2	7.1	4.9			4.9		5.1		8.4
6	2.6	4.2	4.2	4.2	0	14.4	0			0				4.2
7	—	4.2	4.2	4.2	0	7.1	0			0				4.2
8	4.9	8.4	8.4	8.4	0	0	—			5.0				4.2
9	0				0	7.2	0			0				
10	0				0	4.5	0			0				
11	—				0	0	0.3			4.9				
12	1.1				4.2	0	0.3			0				
13	2.7				4.2	0	0			4.9				
14	2.8				4.2	14.4	0			5.0				
15	—				4.2	7.1	2.6							
16	0				7.8	0	2.6							
17	0					7.1	4.9							
18	2.8					14.4	1.4							
19	2.6					7.1	0							



Note (※) :
IC231, 236, 401, 601, 702 are chip parts on the soldering si



Q202
Q302
Q201
Q201
Q710
Q708
Q203
IC704
Q706
Q707
IC233
IC234
IC271
Q702
Q716
Q703
IC707
Q711
Q714
Q700
Q704
Q701
IC701
IC700
Q712

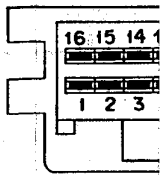


[E-2502Bc]

To Display P.C.B.
E-8071A CN901

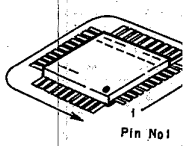
e soldering side.

— CN701 1

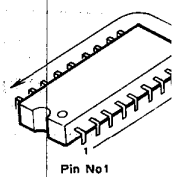


Pin	PA51	IC233
1	0	4.2
2	0	4.2
3	0	4.2
4	1.2	0
5	8.3	4.2
6	2.6	4.2
7	—	4.2
8	4.9	8.4
9	0	
10	0	
11	—	
12	1.1	
13	2.7	
14	2.8	
15	—	
16	0	
17	0	
18	2.8	
19	2.6	
20	8.3	
21	—	
22	0	
23	0	
24	0	
25	4.2	

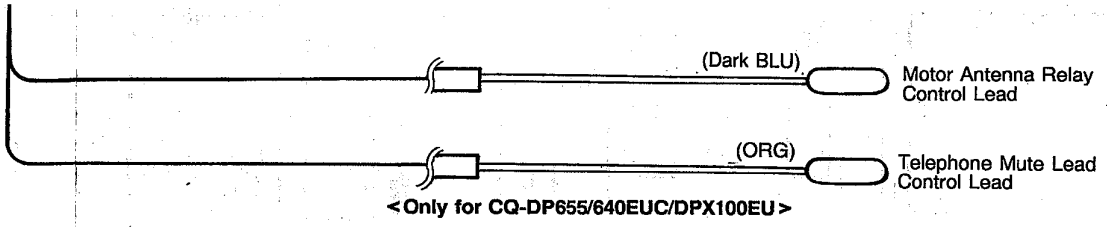
ICs & Tr



IC601	64Pin

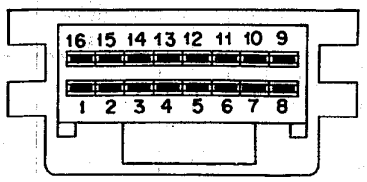


IC233	8Pin
IC234	8Pin
IC235	8Pin
IC801	8Pin



<Only for CQ-DP655/640EUC/DPX100EU>

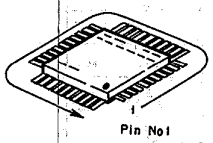
— CN701 16Pin Connector —



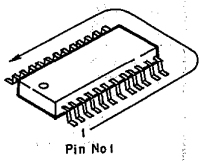
1. No Connection
2. Power Supply, ACC ⊕
3. Ground
4. Rear Speaker, Left ⊖
5. Rear Speaker, Left ⊕
6. Rear Speaker, Right ⊖
7. Rear Speaker, Right ⊕
8. No Connection
9. Telephone Mute
10. Front Speaker, Right ⊕
11. Front Speaker, Right ⊖
12. Front Speaker, Left ⊕
13. Front Speaker, Left ⊖
14. Motor Antenna Cont.
15. Power Supply, ⊕B
16. CD · C Change

Pin	PA51	IC233	IC234	IC235	IC236	IC271	IC401	IC700	IC701	IC702	IC704	IC707	IC708	IC801
1	0	4.2	4.2	4.2	4.2	0	2.3	13.6	9.9	5.0	7.9	5.2	5.2	4.2
2	0	4.2	4.2	4.2	4.2	4.9	0	0	0	—	0	2.3	5.2	4.2
3	0	4.2	4.2	4.2	0	7.0	0	9.9	5.0	5.0	14.3	0	0	4.2
4	1.2	0	0	0	4.2	0	0			—		—		0
5	8.3	4.2	4.2	4.2	4.2	7.1	4.9			4.9		5.1		8.4
6	2.6	4.2	4.2	4.2	0	14.4	0			0				4.2
7	—	4.2	4.2	4.2	0	7.1	0			0				4.2
8	4.9	8.4	8.4	8.4	0	0	—			5.0				4.2
9	0				0	7.2	0			0				
10	0				0	4.5	0			0				
11	—				0	0	0.3			4.9				
12	1.1				4.2	0	0.3			0				
13	2.7				4.2	0	0			4.9				
14	2.8				4.2	14.4	0			5.0				
15	—				4.2	7.1	2.6							
16	0				7.8	0	2.6							
17	0					7.1	4.9							
18	2.8					14.4	1.4							
19	2.6					7.1	0							
20	8.3					0	2.5							
21	—					7.2								
22	0					7.0								
23	0					0								
24	0													
25	4.2													

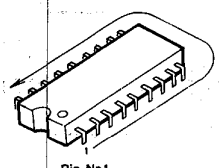
ICs & Transistors



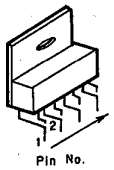
IC601	64Pin



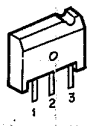
IC231	32Pin
IC236	16Pin
IC401	20Pin
IC703	14Pin



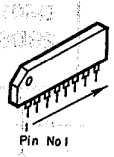
IC233	8Pin
IC234	8Pin
IC235	8Pin
IC801	8Pin



IC271	23Pin



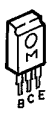
IC708	3Pin

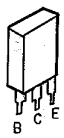


IC707	5Pin

IC701	3Pin

IC700	3Pin
IC704	3Pin





• **Q708**

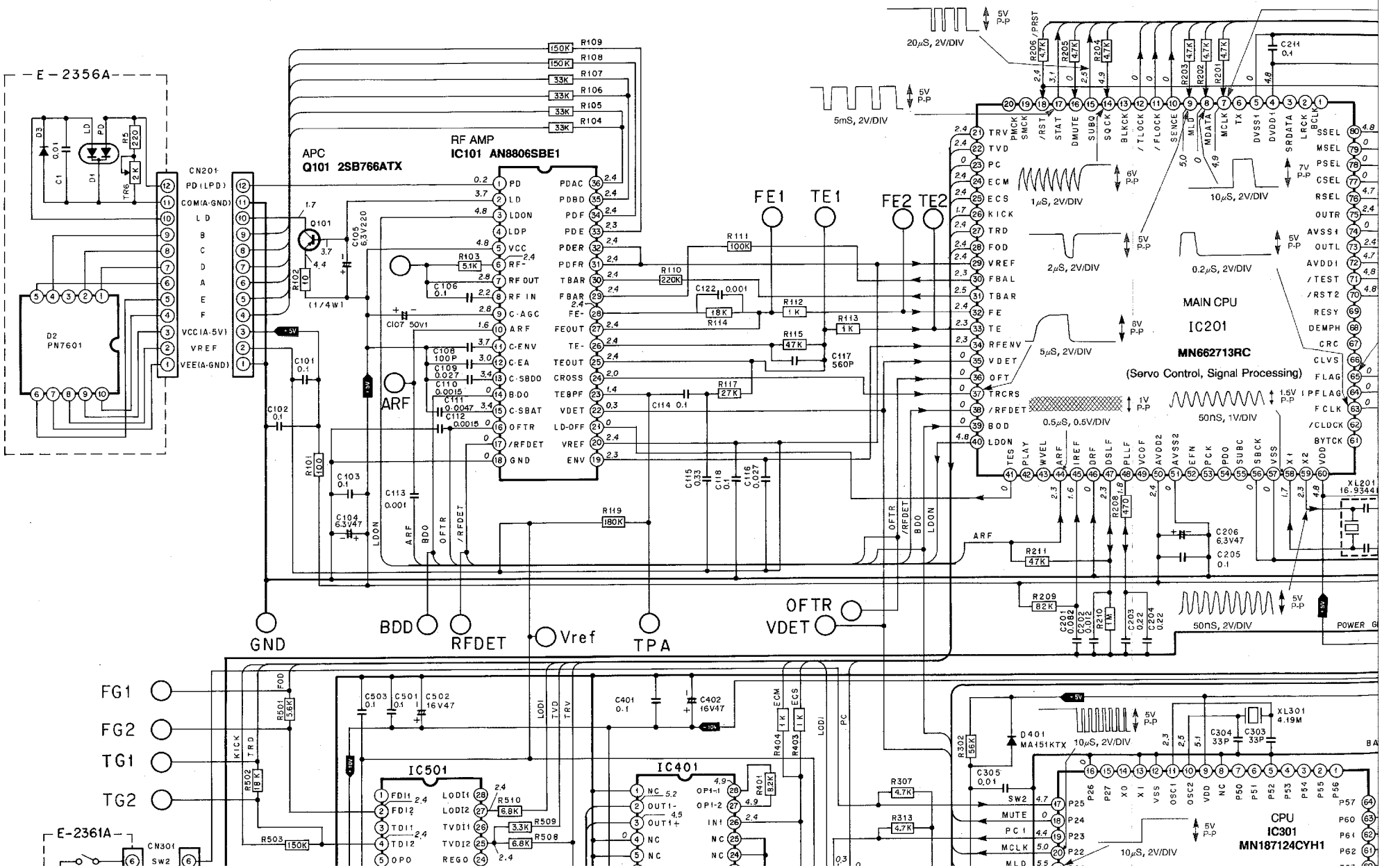
• **Q203, Q700, Q702, Q712**

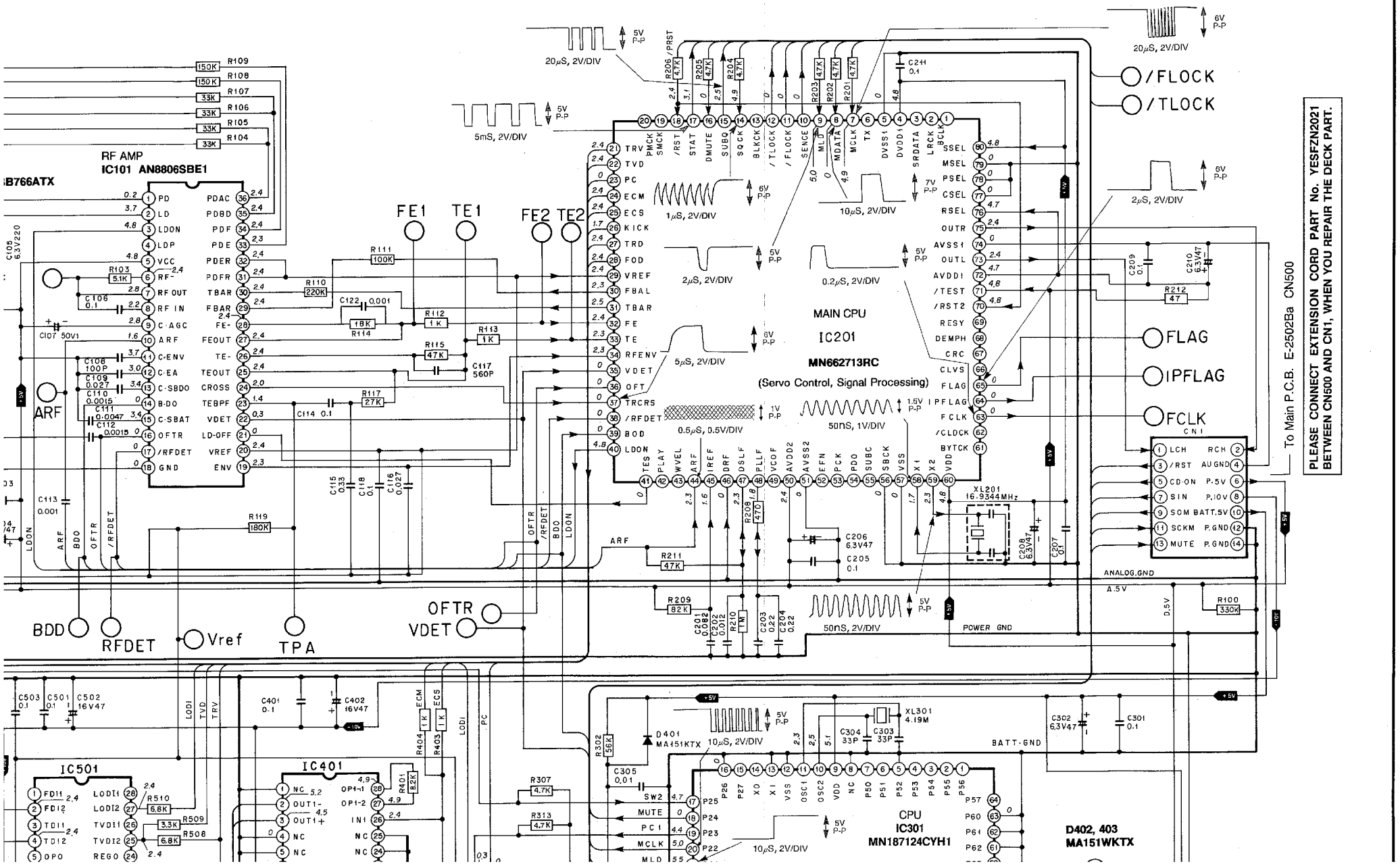
• **Q401**

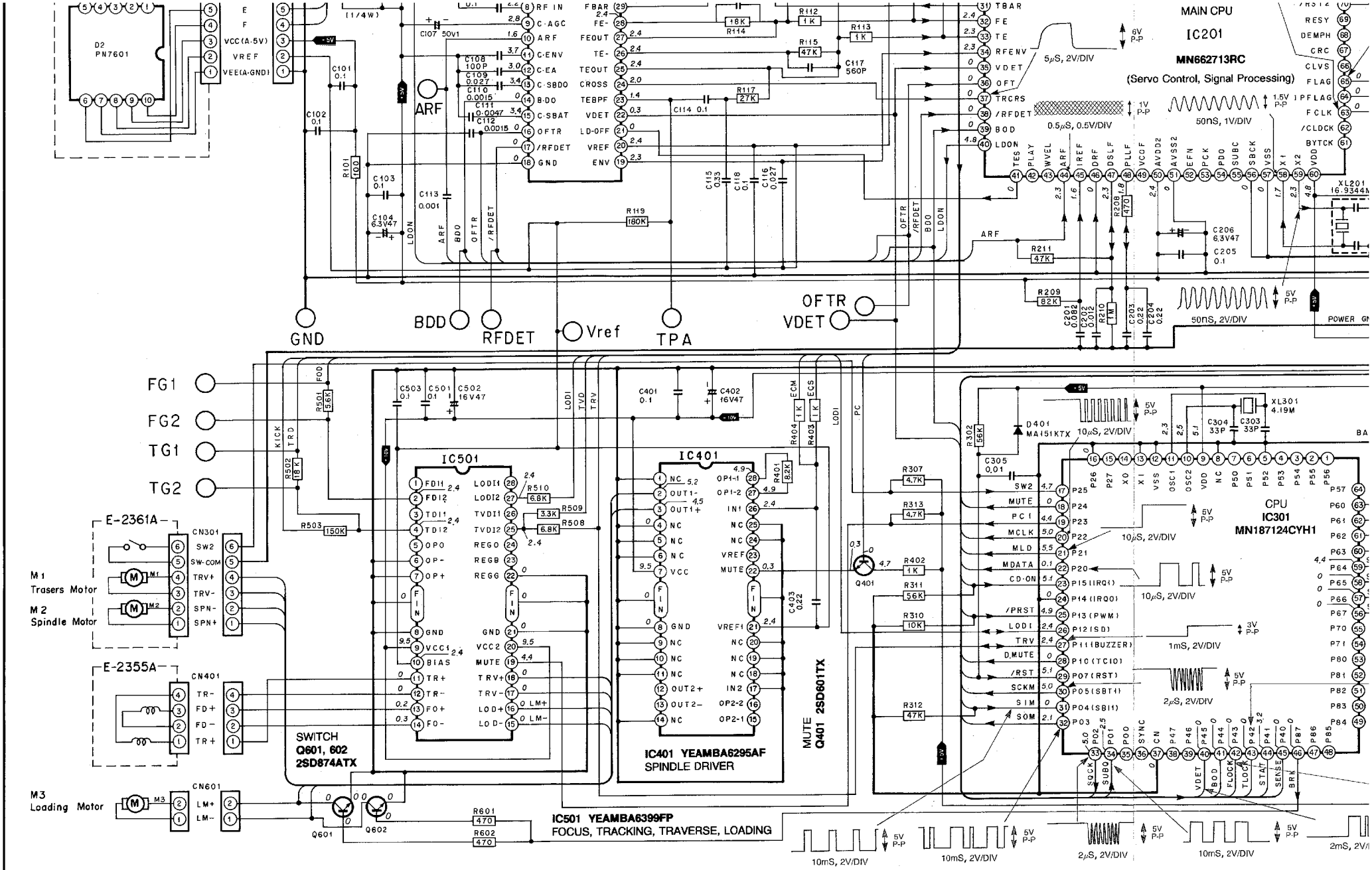
• **Q710**

• **Other transistors**

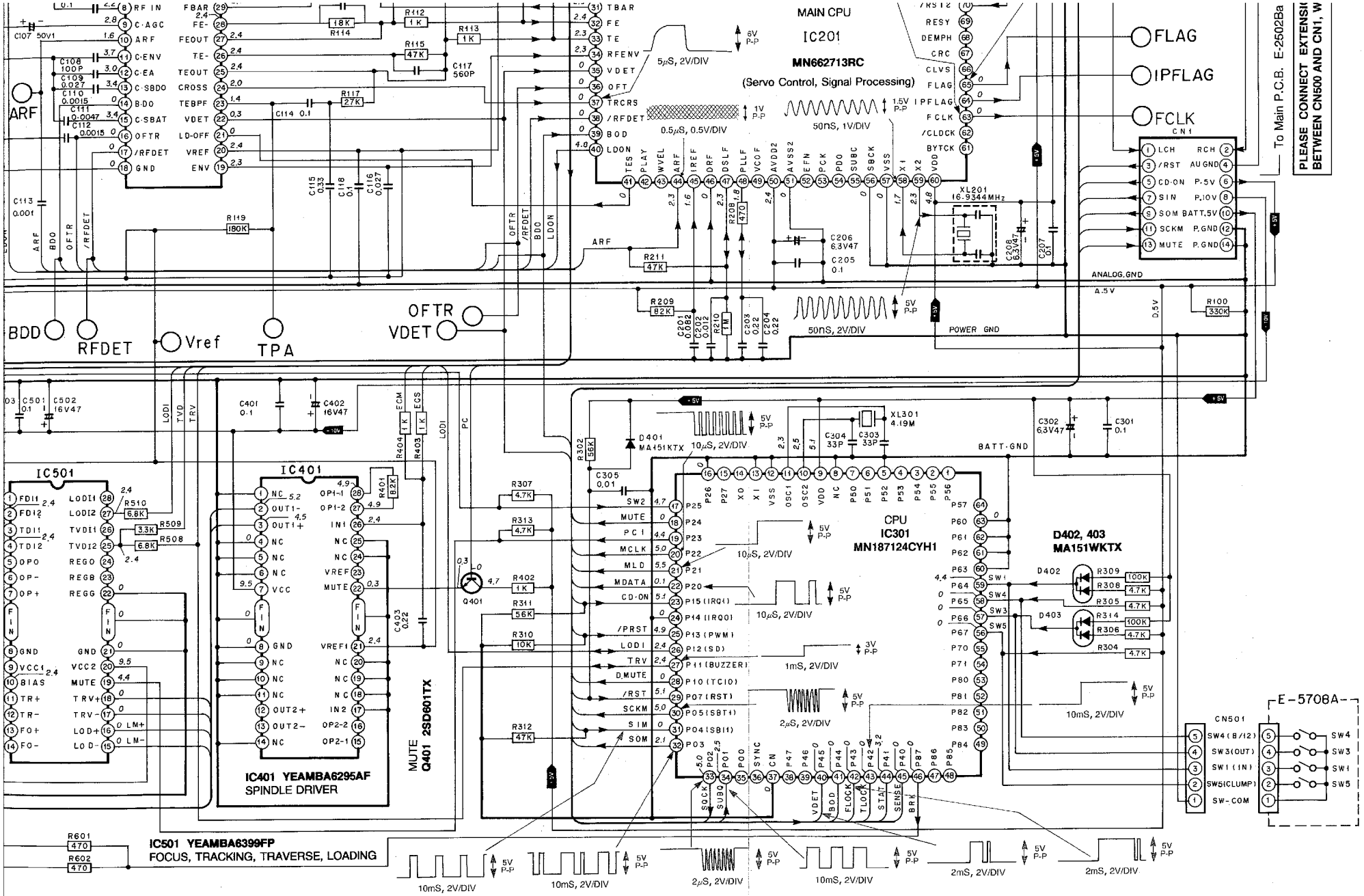
SCHEMATIC DIAGRAM MODELS CQ-DP655/640EUC/638EU/DPX100EU (CD Servo Block)



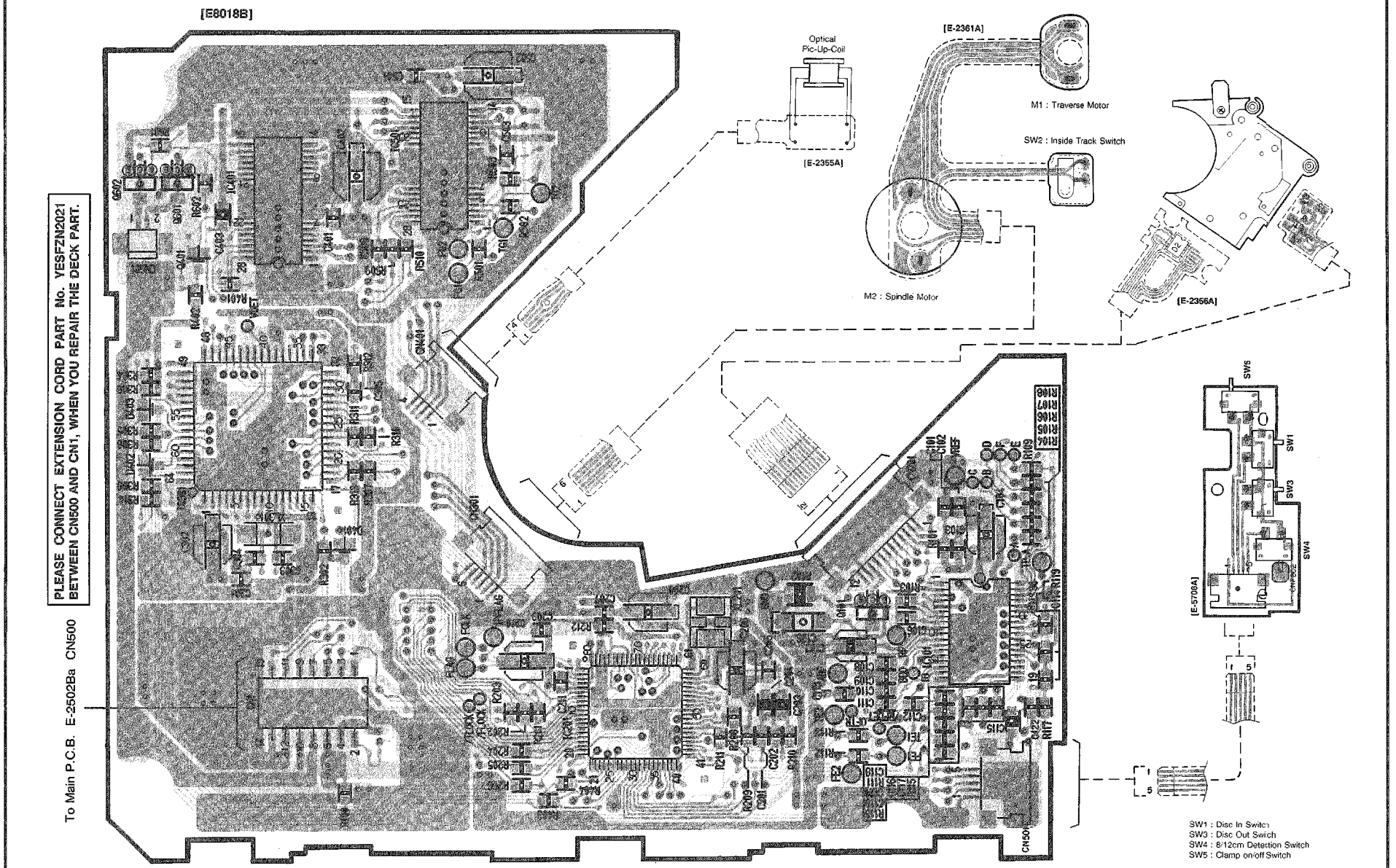

RF AMP
IC101 AN8806SBE1
B766ATX
MAIN CPU
IC201
MN662713RC
(Servo Control, Signal Processing)
CPU
IC301
MN187124CYH1
IC501
IC401
D402, 403
MA151WKTX
D401
MA151KTX
XL201
16.9344MHz
XL301
4.19M
CN1
FE1
TE1
FE2
TE2
ARF
BDD
RFDET
Vref
TPA
OFTR
VDET
/FLOCK
/TLOCK
FLAG
IPFLAG
FCLK
PLEASE CONNECT EXTENSION CORD PART No. YESFZN2021
BETWEEN CN500 AND CN1, WHEN YOU REPAIR THE DECK PART.
To Main P.C.B. E-2502Ba CN500
ANALOG.GND
POWER GND
BATT.GND


MAIN CPU
IC201
MN662713RC
(Servo Control, Signal Processing)
GND
BDD
RFDET
Vref
TPA
OFTR
VDET
FG1
FG2
TG1
TG2
IC501
IC401
IC401 YEAMBA6295AF
SPINDLE DRIVER
IC501 YEAMBA6399FP
FOCUS, TRACKING, TRAVERSE, LOADING
SWITCH
Q601, 602
2SD874ATX
MUTE
Q401 2SD601TX
CPU
IC301
MN187124CYH1
E-2361A
E-2355A
M1
Trasers Motor
M2
Spindle Motor
M3
Loading Motor
D2
PN7601
XL201
16.9344M
XL301
4.19M

Remova


MAIN CPU
IC201
MN662713RC
(Servo Control, Signal Processing)
CPU
IC301
MN187124CYH1
IC501 YEAMBA6399FP
FOCUS, TRACKING, TRAVERSE, LOADING
IC401 YEAMBA6295AF
SPINDLE DRIVER
MUTE
Q401 2SD601TX
D402, 403
MA151WKTX
D401
MA151KTX
XL201
16.9344MHz
XL301
4.19M
CN1
CN501
E-5708A-
FLAG
IPFLAG
FCLK
ARF
BDD
RFDET
Vref
TPA
OFTR
VDET
ANALOG.GND
POWER GND
BATT-GND
To Main P.C.B. E-2502Ba
PLEASE CONNECT EXTENSI
BETWEEN CN500 AND CN1, W

WIRING DIAGRAM MODELS CQ-DP655/640EUC/638EU/DPX100EU (CD Servo Block)


[E8018B]
PLEASE CONNECT EXTENSION CORD PART No. YESFZN2021 BETWEEN CN500 AND CN1, WHEN YOU REPAIR THE DECK PART.
To Main P.C.B. E-2502Ba CN500
Optical Pic-Up-Coil
[E-2355A]
[E-2361A]
M1 : Traverse Motor
SW2 : Inside Track Switch
M2 : Spindle Motor
[E-2356A]
[E-5709A]
SW1 : Disc In Switch
SW3 : Disc Out Swich
SW4 : 8/12cm Detection Switch
SW5 : Clamp on/off Switch

Removable Face High-Power CD Player / Receiver

TERMINALS DESCRIPTION

<Main Block>

■ IC601 YEAM78013638

Pin No.	Port	Description	I/O	Vol. (V)
1	ALARM	Alarm output	O	0
2	PLL. CE	PLL controller chip enable	O	0
3	PLL. CLK	PLL clock	O	0
4	PLL. DI	PLL data output	O	0
5	PLL. DO	PLL data input	I	4.9
6	CD MUTE	CD mute control	I	2.0
7	—	(Connectiong to ground)	—	0
8	—	(Connectiong to ground)	—	0
9	GND	Ground	—	0
10	NC	No connection	—	—
11	CD MODE	CD mode control	O	5.4
12	CD ON	CD start/stop	O	5.1
13	CD RESET	CD reset	O	5.1
14	CD GAIN	CD gain control	O	5.1
15	LCD CE	LCD chip enable	O	0
16	LCD CLK	LCD clock	O	0
17	LCD DI	LCD data output	O	0
18	VCC CNT	Voice Rec. VCC control	O	0
19	LCD. DO	Key data input	I	4.3
20	LED	Security LED control	O	0
21	HDB	H.D.B. control	O	0
22	ALM SW	Alarm SW input	I	4.4
23	MONO CNT	Mono AF select	O	0
24	GND	Ground	—	0
25	P.CONT	Power control	O	5.0
26	—	No connection	—	—
27	AMP. CNT	Not used	—	—
28	ALM CNT	Alarm control	O	0
29	VOL. CLK	Electric volume cont. clock	O	5.0
30	VOL. DATA	Electric volume cont. data	O	5.0

Pin No.	Port	Description	I/O	Vol. (V)
31	P. MODE	Voice Rec. play mode	I	5.1
32, 33	—	No connection	—	—
34	CDC REM	CD changer remote control	O	0
35	RESET	System reset	I	5.2
36	—	(Connectiong to ground)	—	3.3
37	BATT	Battery detection	I	5.1
38	REMO	Remocon data input	I	0
39	ACC	ACC detection	I	5.2
40	V_{DD}	+5V power supply	—	5.1
41	X2	Crystal oscillator	—	2.5
42	X1	Crystal oscillator	—	2.3
43	—	(Connectiong to ground)	—	0
44	NC	No connection	—	—
45	—	(Connectiong to ground)	—	0
46	AV. GND	Ground	—	0
47	INIT A	Initial setting	I	5.1
48	INIT B	(Connectiong to ground)	—	0
49	SD	B/S detection	I	0.5
50~52	—	(Connectiong to ground)	—	0
53	ST	Stereo/Mono signal	I	4.9
54	MUTE	Mute control	O	5.1
55	AV_{DD}	+5V power supply	—	5.1
56	AV_{REF}	Reference voltage	—	5.1
57	C. DATA	CD changer data	I	0
58	NC	No connection	—	—
59	C. CLK	CD changer clock	I	0
60, 61	NC	No connection	—	—
62	SI	Serial data from CD CPU	I	2.3
63	SO	Serial data for CD CPU	O	0–
64	CD CLK	Clock for CD CPU	I	5.0

<CD Block>

■ IC301 MN187124CYH

Pin No.	Port	Description	I/O	Vol. (V)
1~7	P55~50	No connection	—	—
8	NC	(Connectiong to ground)	—	0
9	V_{DD}	+5V power supply	—	5.1
10	OSC2	Crystal oscillator	—	2.5
11	OSC1	Crystal oscillator	—	2.3
12	V_{SS}	Ground	—	0
13	XI	(Connectiong to ground)	—	0
14	XO	No connection	—	—
15	P27	No connection	—	—
16	P26	(Connectiong to ground)	—	0
17	SW2	Inner track switch	I	4.7
18	MUTE	Mute output	O	0
19	PC1	Loading motor power control	O	4.4
20	MCLK	Clock for servo LSI	O	5.0
21	MLD	Data latch for servo LSI	O	5.5
22	MDATA	Data for servo LSI	O	0.1
23	CD.ON	MPU on/off status	I	5.1
24	IRQ1	(Connectiong to ground)	—	0
25	PRST	Servo block reset	I	4.9
26	LODI	Loading direction control	I/O	2.4
27	TRV	Foced traverse control	I/O	2.4
28	DMUTE	Digital LSI mute	O	0
29	RESET	CPU reset	I	5.1

Pin No.	Port	Description	I/O	Vol. (V)
30	SCLM	Control for I/O controller	O	5.0
31	SIM	Serial data input	I	0
32	SOM	Serual data output	O	2.1
33	SQCK	Clock for Q-code data	O	5.0
34	SUBQ	Q-code data	I	2.5
35	P00	No connection	—	—
36	SYNC	No connection	—	—
37	CM	(Connectiong to ground)	—	0
38	P47	No connection	—	—
39	P48	No connection	—	—
40	VDET	Vibration detection	I	0
41	BDO	Drop out signal	I	0
42	FLOCK	Focus servo lock detection	I	0
43	TLOCK	Tracking servo lock detection	I	0
44	STAT	Signal process LSI status	I	3.2
45	SENSE	Servo LSI status	I	0
46	BRK	Loading motor brake control	O	0
47~55	—	No connection	—	—
56	SW5	Clamp completion switch	I	0
57	SW3	Loading completion switch	I	0
58	SW4	8cm disc-in switch	I	0
59	SW1	CD eject completion switch	I	4.4
60~64	—	(Connectiong to ground)	—	0

<CD Servo BLock>

■ IC201 MN662713RC

Pin No.	Port	Description	I/O	Vol. (V)
1	BCLK	Not used	—	—
2	LRCK	Not used	—	—
3	SRDATA	Not used	—	—
4	DVDD1	+5V Power Supply for Digital	I	4.8
5	DVSS1	Ground for Digital	I	0
6	TX	Not used	—	—
7	MCLK	Command Clock Signal	I	4.9
8	MDATA	Command Data	I	0
9	MLD	Command Load	I	5.0
10	SENSE	Sense Signal	O	0
11	/FLOCK	Focus Servo	O	0
12	/TLOCK	Tracking Servo	O	0
13	BLKCK	Not used	—	—
14	SQCK	EX-Clok for Subcord Q	I	4.9
15	SUBQ	Subcord Q-cord	O	2.5
16	DMUTE	Muting	I	0
17	STAT	Status Signal	O	3.1
18	/RST	Reset Input	I	2.4
19	SMCK	Not used	—	—
20	PMCK	Not used	—	—
21	TRV	Traverse Motor Control	O	2.4
22	TVD	Traverse Motor Control	O	2.4
23	PC	Spindle Motor ON	O	0
24	ECM	Spindle Motor Drive	O	2.4
25	ECS	Spindle Motor Drive	O	2.4
26	KICK	Kick Pulse	O	1.7
27	TRD	Tracking Drive	O	2.4
28	FOD	Focus Drive	O	2.4
29	VREF	Reference Voltage	I	2.4
30	FBAL	Focus Balance	O	2.3
31	TBAL	Tracking Balance	O	2.5
32	FE	Focus Error	I	2.4
33	TE	Tracking Error	I	2.3
34	RFENV	RF Envelope	I	2.3
35	VDET	Detecting Signal	I	0
36	OFT	OFF Track Signal	I	0
37	TRCRS	Track Close	I	0
38	/RFDET	RF Detecting Signal	I	0
39	BDO	Drop-out Signal	I	0
40	LDON	Laser ON Signal	O	4.8

Pin No.	Port	Description	I/O	Vol. (V)
41	TES	Tracking Error Shunt	O	0
42	PLAY	Not used	—	—
43	WVEL	Not used	—	—
44	ARF	RF Signal	I	2.3
45	IREF	Standard Current Input	I	1.6
46	DRF	Bias for DSL	I	0
47	DSLF	Loop Filter for DSL	I/O	2.3
48	PLLF	Loop Filter for PLL	I/O	1.8
49	VCOF	Not used	—	—
50	AVDD2	Power supply for Analog	I	2.4
51	AVSS2	Ground for Analog	I	0
52	EFN	Not used	—	—
53	PCK	Not used	—	—
54	PDO	Not used	—	—
55	SUBC	Not used	—	—
56	SBCK	Subcord Clock	I	0
57	V_{SS}	Ground	I	0
58	X1	Crystal oscillator	I	1.7
59	X2	Crystal oscillator	O	2.3
60	V_{DD}	+5V Power Supply	I	4.8
61	BYTCK	Not used	—	—
62	CLDCK	Not used	—	—
63	FCLK	F-Clock	O	0
64	IPFLAG	H-Flag	O	0
65	FLAG	Flag Output	O	0
66	CLVS	Not used	—	—
67	CRC	Not used	—	—
68	DEMPH	Not used	—	—
69	RESY	Not used	—	—
70	/RST2	Reset for MASH	I	4.8
71	/TEST	Test Pin	I	4.8
72	AVDD1	+5V Power supply for Analog	I	4.7
73	OUTL	L-Channel Output	O	2.4
74	AVSS1	Ground for Analog	I	0
75	OUTR	R-Channel Output	O	2.4
76	RSEL	RF Polarity	I	4.7
77	CSEL	(Connecting Ground)	I	0
78	PSEL	(Connecting Ground)	I	0.
79	MSEL	(Connecting Ground)	I	0
80	SSEL	Mood Selecte for Output	I	4.8

<Display Block>

■ IC901 YEAMLC75853

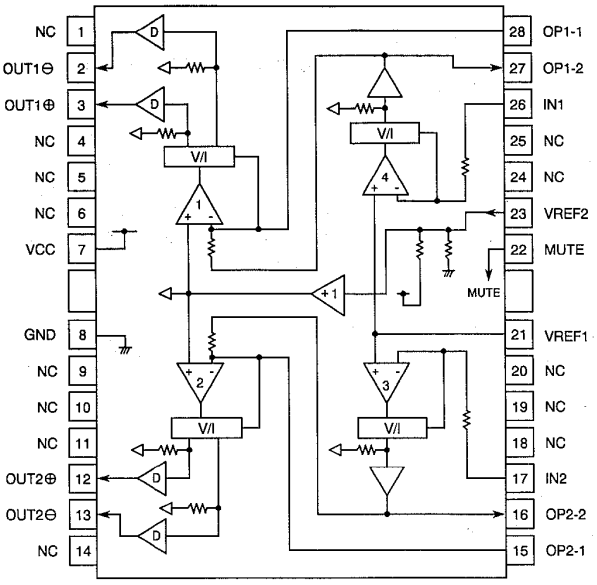
Pin No.	Port	Description	I/O	Vol. (V)
1	MIC CNT	MIC/Audio select	O	4.9
2	PLY ST/SP	Voice recorder play start/stop	O	0
3	P. LED	Voice recorder play LED on	O	0
4	—	No connection	—	—
5~40	SEG1~23	LCD segment output	O	2.5
41~43	COM 3~1	LCD common output	O	2.5
44~49	KS1~6	Key scan signal	O	0.9
50~53	KI1~4	Key data input	I	0
54	KI5	(Connecting to ground)	—	0
55	TEST	(Connecting to ground)	—	0

Pin No.	Port	Description	I/O	Vol. (V)
56	VDD	+5V power supply	—	4.9
57	VDD1	Not used	—	—
58	VDD2	Not used	—	—
59	V_{SS}	Ground	—	0
60	OSC	CR oscillator	—	3.9
61	DO	Key data output	O	4.4
62	CE	Chip enable	I	0
63	CLK	LCD clock	I	0
64	DI	LCD data input	I	0

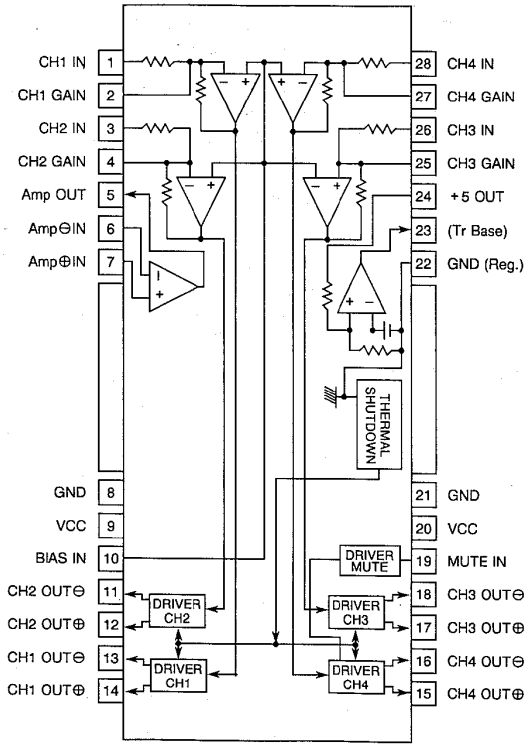
IC BLOCK DIAGRAM

<CD Servo Block>

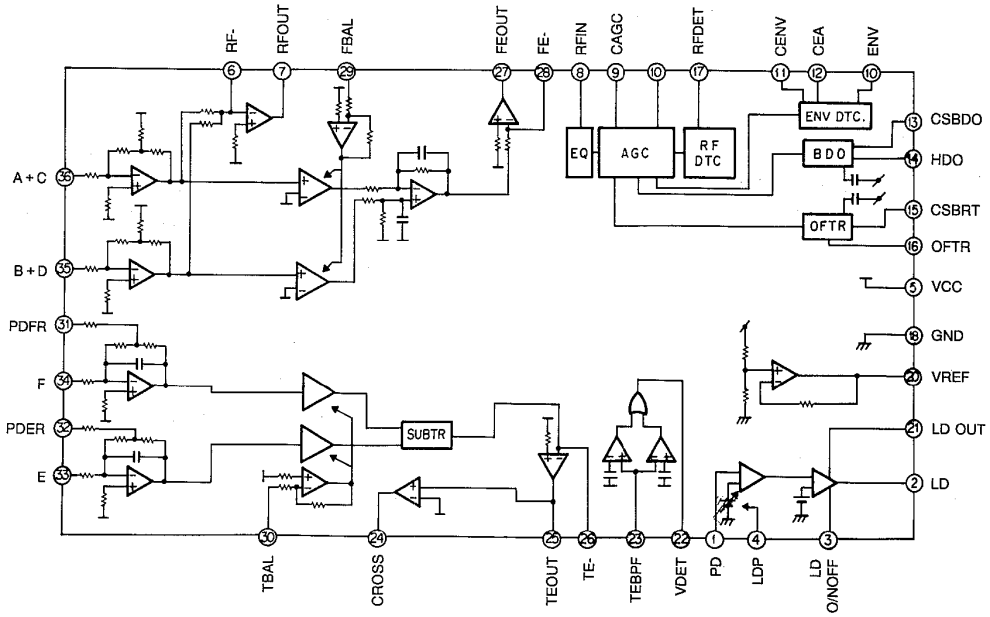
• IC401 YEAMBA6295AF



• IC501 YEAMBA6339FP



• IC101 AN8806SBE1



Voice Recording System
<Only for CQ-DP655/640EUC/DPX100EU>

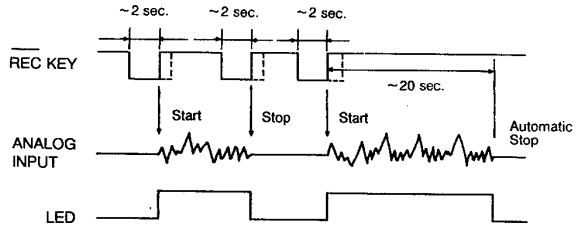
[Recording]

1. Press the "▶" (MIC/AUDIO) button for more than 2 seconds to switch recording input mode (MIC or AUDIO). In the case of MIC input, the "MIC" indication appears on the display. In the case of AUDIO input (from radio or CD or tape), the "MIC" indication disappears.
2. When the REC button is pressed and held for more than 2 seconds, the recording starts. The recording can be stopped when the REC button is pressed and held for more than 2 seconds again. The recording stops automatically after 20 seconds.
   - The red LED lights up during the recording.
   - The message recorded previously will be erased when the new recording is made.
   - There is no playback function when the "▶" (PLAYBACK) key is pushed during the recording. Instead, the "mute" function operates for 1-2 sec., then the recording resumes.
3. Flow of the signals
   1) Flow of the signals in the case of MIC (microphone) recording
      - The audio signal received by the MIC (microphone) is entered in the pins 17 and 18 of the voice recording LSI (IC951), and is output through the pin 21, after passing through the BUFFER AMP. This signal is entered in the pin 5 of the ANALOG SW (IC952), and is output through the pin 4. Then, the signal is entered in the pin 20 of the IC951, and is stored in the built-in EEPROM.
   2) Flow of the signals in the case of audio input (from radio, CD or tape)
      - The signals of pin 23 (R-CH) and pin 10 (L-CH) of IC231 (Electronic VOL) are entered in pin 6 of IC 801 (BUFFER AMP), and are output at pin 7. Then, these signals are entered in pin 3 of IC952 (ANALOG SW) and are output at the pin 4.
        After that, the signals are entered in pin 20 of IC951, and are stored in the EEPROM.

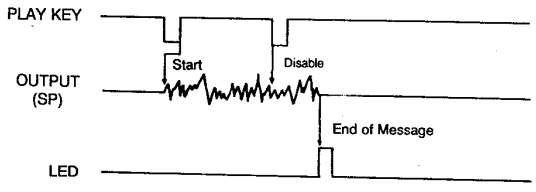
<Control signals in the REC MODE>

1) MIC CONT output (from the pin 1 of IC901 to the pin 9 of IC952)
   - Signal for switching the recording mode between the MIC-AUDIO modes.
     In the AUDIO mode : H
     In the MIC mode : L
2) CD GAIN output (from the pin 14 of IC601 to the base of Q801)
   - Signal for switching the recording level of the audio LSI in the CD, CDC and AUX modes, during the recording mode.
     In the CD, CDC and AUX mode : H
     In other mode : L
3) VCC CONT output (from the pin 18 of IC601 to the base of Q712)
   - Signal for controlling the power supply at the periphery of the audio LSI.
     When POWER OFF : H
     When POWER ON : L

[Recording] : The recording starts/stops every time the REC key is pressed for more than 2 seconds .



[Playback] : The playback starts when the PLAY key is pressed, and stops automatically.



[Playback]

1. The playback is started when the "▶" button is pressed, and it continues until the recorded contents end.
   - The operation returns to the original mode when the removable face is installed.
   - The red LED lights up once, momentarily, when the playback ends.
   - The POWER ON/OFF, VOL UP/DOWN, ATT and the MODE switching operations are possible during the playback.
   - When recording is activated during the playback, the playback is stopped, and the recording is started.
2. When the playback is started, the audio signal stored in the EEPROM memory is output at the pins 14 and 15 of IC951 to pins 3 and 2 of IC801 (BUFFER AMP), and then it is output at pin 1 to pin 3 (MONO input) of the analog SW (IC236) via diode (D801). Then, the signal is entered in the AMP via electronic VOL, and the audio signal is output to the loudspeaker.

<Control signals during the PLAY MODE>

1) PLAY CONT output (from pin 2 of IC901 to pin 10 of IC952)
   - Start/stop pulse signal of the playback mode when the panel is mounted.

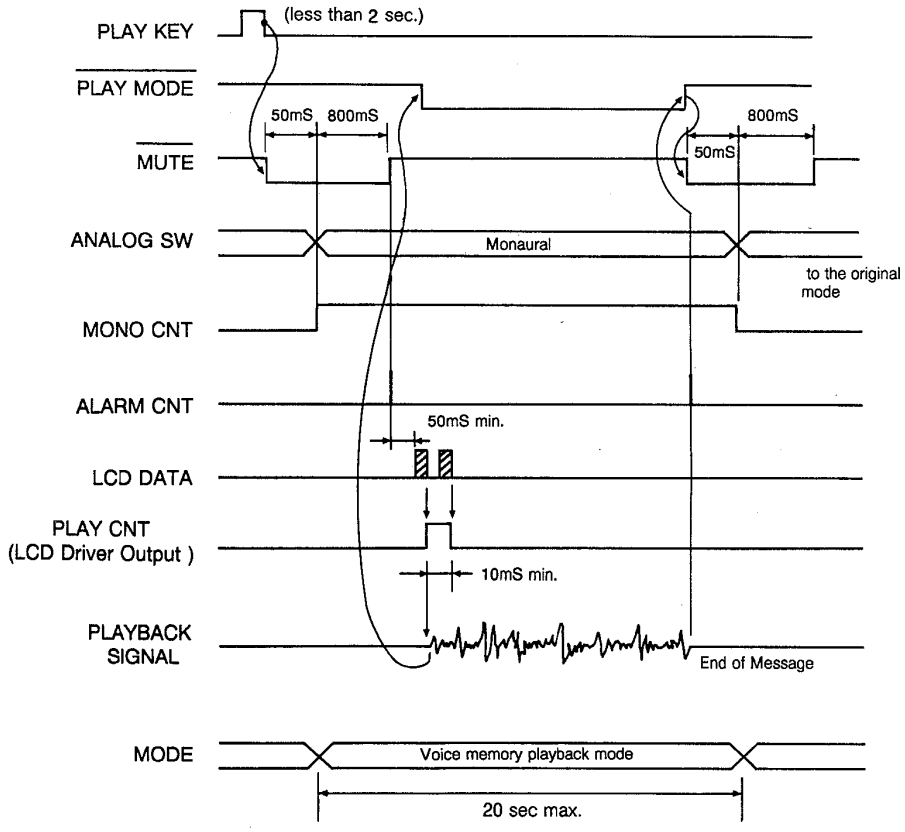
     ⎍ : Playback Start/Stop

2) PLAY MODE input (from the pins 14 and 15 of IC951 to pin 31 of IC601)
   - The end of the playback mode is triggered by the L-H switching of the signal that is stuck at "L" during the playback of the audio LSI.

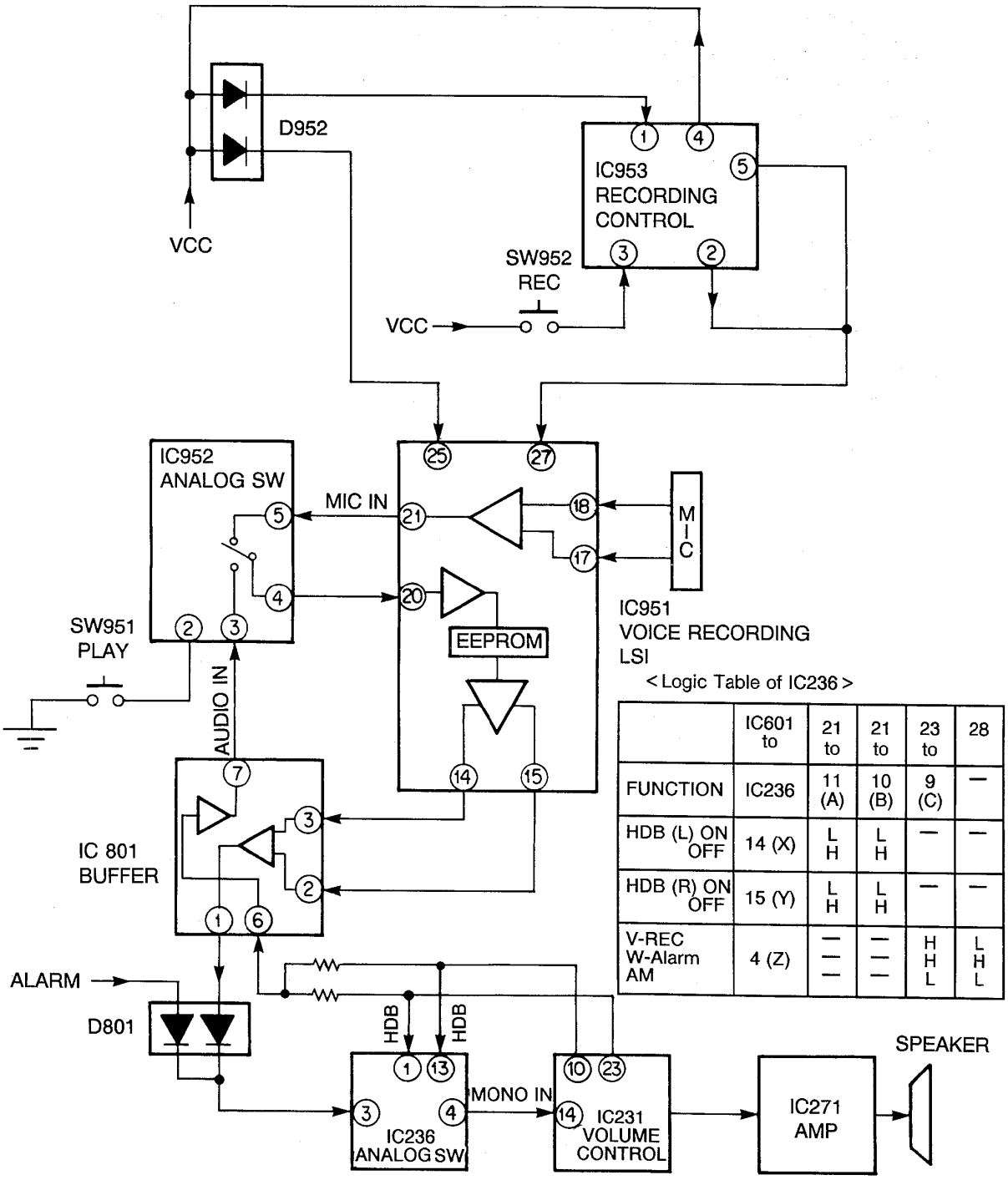
     Audio playback mode : L
     Audio operation OFF : H

3) MONO CON output (from pin 23 of IC601 to pin 9 of IC236)
   - Signal for switching the monaural input signal of the electronic VOL (IC231)

     Voice recording/Warning alarm : H
     Others : L



Voice Recording System Block Diagram
< Only for CQ-DP655/640EUC/DPX100EU >



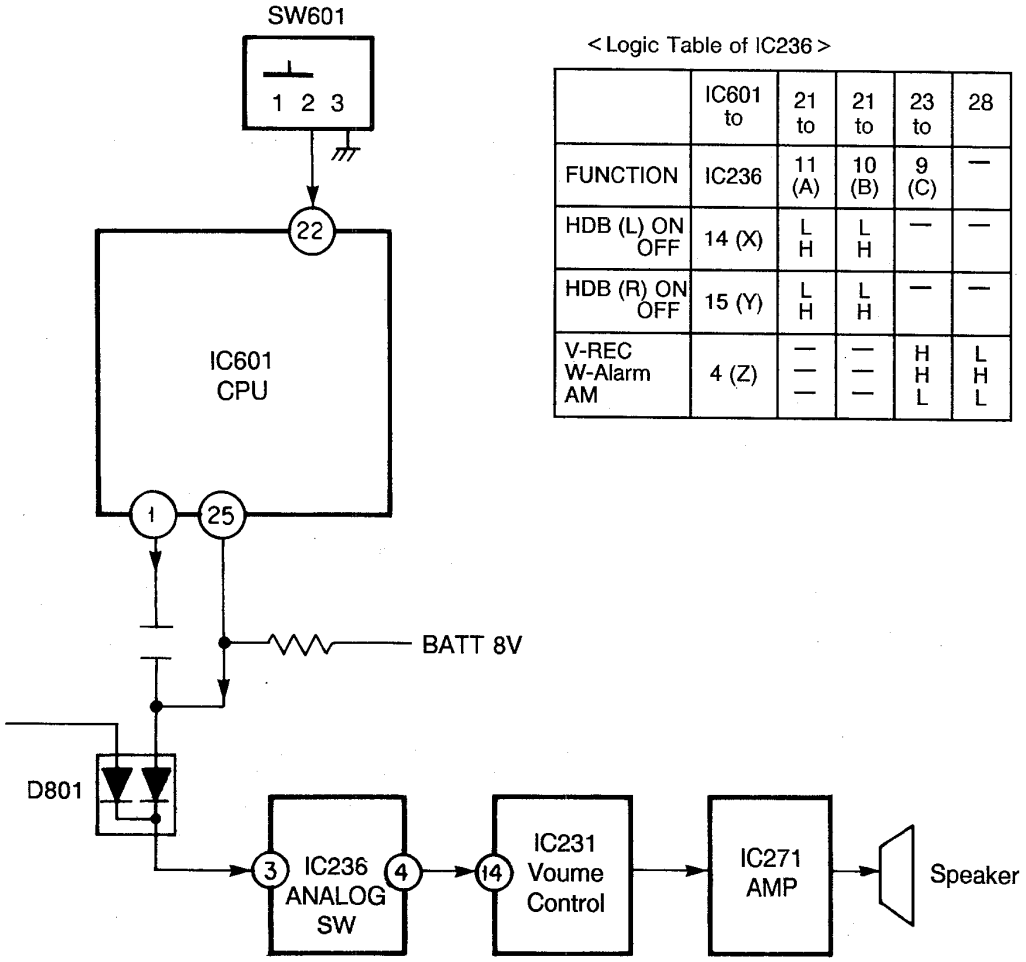
< Logic Table of IC236 >

	IC601 to	21 to	21 to	23 to	28
FUNCTION	IC236	11 (A)	10 (B)	9 (C)	—
HDB (L) ON OFF	14 (X)	L H	L H	—	—
HDB (R) ON OFF	15 (Y)	L H	L H	—	—
V-REC W-Alarm AM	4 (Z)	— — —	— — —	H H L	L H L

Warning Alarm System
< Only for CQ-DP655/640EUC/DPX100EU >

- Push the SEL key and hold for 4 seconds for switching between "Alarm ON (LED ON)" and "Alarm OFF (LED OFF)".
- The security LED flickers when the LED is ON. When the removable face is removed and the lever is pushed, the SW 601 turns ON, and the alarm sound signals of 1.2kHz and 2.4kHz are output from the pin 1 of the IC601 (CPU). This signal passes through the diode (D801), is entered in pin 3 of IC 236 (Analog SW), and is output at pin 4. Then, it is entered in pin 14 (MONO input) of IC231 (Electronic VOL), the obtained output passes through IC271 (AMP). and is output through the loudspeaker for 1 minute in the form of alarm sound. To stop the alarm sound, install the removable face to the unit.
- The alarm will not operate if the removable face is not removed.

Warning Alarm System Block Diagram
< Only for CQ-DP655/640EUC/DPX100EU >

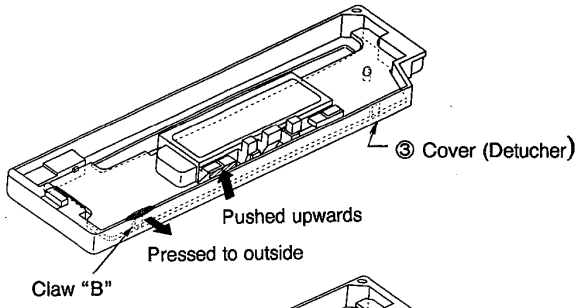


< Logic Table of IC236 >

	IC601 to	21 to	21 to	23 to	28
FUNCTION	IC236	11 (A)	10 (B)	9 (C)	—
HDB (L) ON OFF	14 (X)	L H	L H	—	—
HDB (R) ON OFF	15 (Y)	L H	L H	—	—
V-REC W-Alarm AM	4 (Z)	— — —	— — —	H H L	L H L

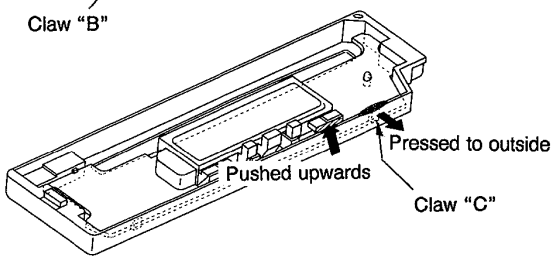
DISPLAY P.C.B. DISASSEMBLY PROCEDURE

1)



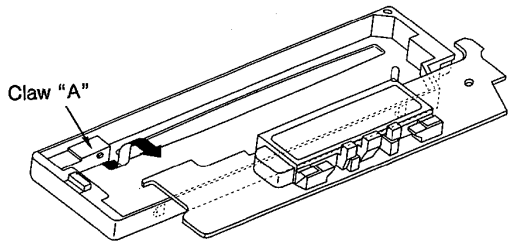
1) Disengage Claw "B", while pressing the upper part of Claw "B" to the outside and raising the bottom left of the LCD Transparent Plate.

2)



2) Disengage Claw "C", while pressing the upper part of Claw "C" to the outside and raising the bottom right of the LCD Transparent Plate.

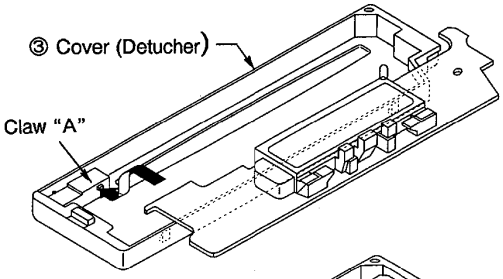
3)



3) Disengage Claw "A".

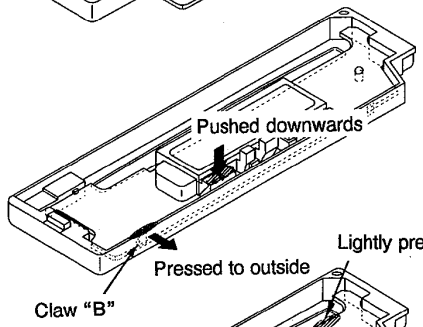
DISPLAY P.C.B. ASSEMBLY PROCEDURE

1)



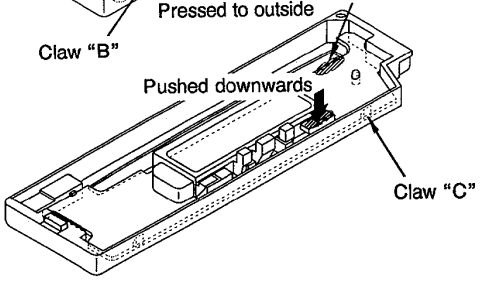
1) Insert Claw "A" only.

2)



2) Press the bottom left of the LCD Transparent Plate and fit Claw "B", while pressing the upper part of Claw "B" to the outside.

3)



3) Press the bottom right of the LCD Transparent Plate and fit Claw "C", while lightly pressing the top-right part of the board.

Replacement Parts List
Models NO. CQ-DP655EUC/CQ-DP640EUC/CQ-DP638EU/CQ-DPX100EU

NOTES :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice : Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Next to the Ref. No. in the parts list is a location key, to show the general location of the parts shown in the exploded drawing, as in a road map.
4. The marking (RTL) indicates that Retention Time is limited for this item. After the discontinuation of assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
			ICs & TRANSISTORs		
[E2502B]			**MAIN BLOCK**		
IC231	YEAMEA6320TT		IC	1	
IC233, 234	YEAMUPC4570C		IC	2	
IC235	YEAMUPC4570C		IC	1	CQ-DP655/640EUC /DPX100EU
IC236	YEAMPD4053BG		IC	1	
IC271	YEAMHA13150A		IC	1	
IC401	YEAMLC7216MC		IC	1	
IC601	YEAM78P014GC		IC	1	
IC700	AN7710		IC	1	
IC701	AN78N05		IC	1	
IC702	MN4584BST1		IC	1	CQ-DP655EUC
IC704	YEAMUPC78M08		IC	1	
IC707	YEAMM51945AL		IC	1	
IC708	MN1280Q		IC	1	
IC801	YEAMM5218AP		IC	1	
PA51	YEAU03SMX07		Electronic Tuner	1	
Q201, 202	YEANDTC323ST		Transistor	2	
Q203	YEANA114YLT		Transistor	1	
Q301, 302	YEANDTC323ST		Transistor	2	
Q401	YEAN2SK583		Transistor	1	
Q651	YEANC114YST		Transistor	1	
Q700	2SB1398TA		Transistor	1	
Q701	YEANBP1F3PT		Transistor	1	
Q702	YEANA144ELT		Transistor	1	
Q703	YEANC144WST		Transistor	1	
Q704	YEANBA1A4PT		Transistor	1	
Q706, 707	YEANB123YST		Transistor	2	
Q708	2SD2139TA		Transistor	1	
Q710	YEAN2SB1290		Transistor	1	CQ-DP655EUC
	2SB929PQ			1	CQ-DP640EUC /638EU/DPX100EU
Q711	YEANBA1A4PT		Transistor	1	
Q712	YEANA114YLT		Transistor	1	
Q713	YEANB123YST		Transistor	1	
Q714	YEANDTC113Z		Transistor	1	
Q715, 716	YEAN2SD1020T		Transistor	2	
Q801	YEANC144WST		Transistor	1	
Q802	YEANDTC323ST		Transistor	1	
[E8071A]			**DISPLAY BLOCK**		
IC901	YEAMLC75853		IC	1	
IC921	YEAMSBX8025F		IC	1	CQ-DP655EUC
IC951	YEAMISD1420		IC	1	
IC952	YEAMPD4053BG		IC	1	
IC953	YEAMPD4013T2		IC	1	
Q911	YEANA114EUKT		Transistor	1	
Q953	YEANFN3L4ZT1		Transistor	1	
Q954	YEANC114EUKT		Transistor	1	
Q955	YEANC4081STX		Transistor	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
DIODEs					
[E2502B] **MAIN BLOCK**					
D51	YEADDAN209ST		Diode	1	
D211	MA150TA		Diode	1	
D220 to 222	YEAD11ES2T		Diode	3	
D223	YEADDSM1A2T7		Diode	1	
D275	YEAD11ES2T		Diode	1	
D276	YEADDSM1A2T7		Diode	1	
D375, 376	YEAD11ES2T		Diode	2	
D610	YEADDAN209ST		Diode	1	
D611	MA4082LMTA		Diode	1	
D613	MA150TA		Diode	1	CQ-DP655EUC, CQ-DP640EUC, CQ-DPX100EU
D615	LN25RP		LED	1	
D617	MA150TA		Diode	1	
D618, 619	MA723TA		Diode	2	
D700	YEADDSM1A2T7		Diode	1	
D701	YEAD11ES2T		Diode	1	
D702	MA165TA		Diode	1	
D705	YEADRD91JS1T		Diode	1	
D707	YEADDSM1A2T7		Diode	1	
D709	YEADRD56JB3		Diode	1	
D710	MA165TA		Diode	1	
D711	MA165TA		Diode	1	CQ-DP655/640EUC /DPX100EU
D712	MA165TA		Diode	1	
D801	YEADDAN209ST		Diode	1	
[E8071A] **DISPLAY BLOCK**					
D901 to 907	MA8056LMHTX		Diode	7	
D908	YEADVR1101W		Diode	1	
D909, 910	MA8056LMHTX		Diode	2	
D951	YEADBR2434D		Diode	1	NEW
D952	YEADAP202UKT		Diode	1	
D953	YEADAN202UKT		Diode	1	
D954	MA8056LMHTX		Diode	1	
D955	YEADAN202UKT		Diode	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CAPACITORs					
[E2502B] **MAIN BLOCK**					
C50, 54	YEE05Y103N		Ceramic, 0.01MFD 50WV	2	
C58	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C59	ECEA1AK470		Electrolytic, 47MFD 10WV	1	
C60	ECEA1AK470B		Electrolytic, 47MFD 10WV	1	
C62	ECEA1HSN010		Electrolytic, 1MFD 50WV	1	
C64	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C201	ECEA0JKS470B		Electrolytic, 47MFD 6.3WV	1	
C202, 203	ECQV1H104JL2		Plastic Film, 0.1MFD 50WV	2	CQ-DP655EUC, CQ-DP640EUC, CQ-DPX100EU
C204	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C205	ECEA1HKSR33I		Electrolytic, 0.33MFD 50WV	1	
C206	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C207	ECEA1HKSR22I		Electrolytic, 0.22MFD 50WV	1	
C231	ECEA1EKS3R3B		Electrolytic, 3.3MFD 25WV	1	CQ-DP655EUC
C232, 233	ECEA1EKS3R3B		Electrolytic, 3.3MFD 25WV	2	
C234	ECEA1AKS470I		Electrolytic, 47MFD 10WV	1	
C236	ECQV1H333JL2		Plastic Film, 0.033MFD 50WV	1	
C237	ECQB1H562JF4		Plastic Film, 0.0056MFD 50WV	1	
C239, 240	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	2	
C241	ECEA1AKS470B		Electrolytic, 47MFD 10WV	1	
C242	ECEA1AKS101B		Electrolytic, 100MFD 10WV	1	
C243	YEU05B101K		Ceramic, 100PF 50WV	1	CQ-DP655EUC
C244	ECEA1EKS3R3B		Electrolytic, 3.3MFD 25WV	1	
C245	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C248	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C249	ECQV1H124JM2		Plastic Film, 0.12MFD 50WV	1	
C250	ECEA0JKS220I		Electrolytic, 22MFD 6.3WV	1	
C271, 272	YEE05X392M		Ceramic, 0.0039MFD 16WV	2	
C273 to 276	ECQV1H104JL2		Plastic Film, 0.1MFD 50WV	4	
C290	ECQV1H104JL2		Plastic Film, 0.1MFD 50WV	1	
C291	ECA1CDT472Y		Electrolytic, 4700MFD 16WV	1	
C293, 294	ECEA1CKS100I		Electrolytic, 10MFD 16WV	2	
C295	ECQV1H104JL2		Plastic Film, 0.1MFD 50WV	1	
C301	ECEA0JKS470I		Electrolytic, 47MFD 6.3WV	1	CQ-DP655EUC, CQ-DP640EUC, CQ-DPX100EU
C302, 303	ECQV1H104JL2		Plastic Film, 0.1MFD 50WV	2	
C304	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C305	ECEA1HKSR33I		Electrolytic, 0.33MFD 50WV	1	
C307	ECEA1HKSR22I		Electrolytic, 0.22MFD 50WV	1	
C331	ECEA1EKS3R3B		Electrolytic, 3.3MFD 25WV	1	CQ-DP655EUC
C332	ECEA1EKS3R3B		Electrolytic, 3.3MFD 25WV	1	
C333	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	1	
C336	ECQV1H333JL2		Plastic Film, 0.033MFD 50WV	1	
C337	ECQB1H562JF4		Plastic Film, 0.0056MFD 50WV	1	
C339, 340	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	2	
C343	YEU05B101K		Ceramic, 100PF 50WV	1	CQ-DP655EUC
C344, 345	ECEA1EKS3R3B		Electrolytic, 3.3MFD 25WV	2	
C372	YEE05X392M		Ceramic, 0.0039MFD 16WV	1	
C373 to 376	ECQV1H104JL2		Plastic Film, 0.1MFD 50WV	4	
C377	YEE05X392M		Ceramic, 0.0039MFD 16WV	1	
C401	YEU05SL180J		Ceramic, 18PF 50WV	1	
C402	YEU05SL150J		Ceramic, 15PF 50WV	1	
C403	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C404	ECEA1AK101I		Electrolytic, 100MFD 10WV	1	
C405	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C406	ECEA1VKS4R7I		Electrolytic, 4.7MFD 35WV	1	
C501, 502	YEU05B181K		Ceramic, 180PF 50WV	2	
C503	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C506	YEU05B101K		Ceramic, 100PF 50WV	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C551, 552	YEU05B181K		Ceramic, 180PF 50WV	2	
C553	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C601, 602	YEU05SL150J		Ceramic, 15PF 50WV	2	
C603, 604	YEE05Y103N		Ceramic, 0.01MFD 50WV	2	
C615	YEU05B101K		Ceramic, 100PF 50WV	1	
C616	YEU05SL680J		Ceramic, 68PF 50WV	1	
C617	EECS5R5T473		Electrolytic, 0.047FD 5.5WV	1	
C618	ECEA0JK101I		Electrolytic, 100MFD 6.3WV	1	
C619	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C620	YEU05F104Z		Ceramic, 0.1MFD 50WV	1	
C630	YECKR05103Z		Ceramic, 0.01MFD 50WV	1	
C642	YEU05F104Z		Ceramic, 0.1MFD 50WV	1	CQ-DP655/640EUC /DPX100EU
C700	ECEA1AKS470I		Electrolytic, 47MFD 10WV	1	
C701	ECEA0JKS101I		Electrolytic, 100MFD 6.3WV	1	
C702	ECQB1H393JF4		Plastic Film, 0.039MFD 50WV	1	
C703	ECA1CGE222L		Electrolytic, 2200MFD 16WV	1	
C704	ECEA1CK100I		Electrolytic, 10MFD 16WV	1	
C705	ECQB1H393JF4		Plastic Film, 0.039MFD 50WV	1	
C708	ECEA1AKS101B		Electrolytic, 100MFD 10WV	1	
C709	ECEA1CU331B		Electrolytic, 330MFD 16WV	1	
C712	ECEA1AKS221Q		Electrolytic, 220MFD 10WV	1	
C716	ECEA0JKS470I		Electrolytic, 47MFD 6.3WV	1	
C717	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C718, 731	ECEA1HKS010I		Electrolytic, 1MFD 50WV	2	
C732	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	CQ-DP655EUC
C750	ECEA1CKS101I		Electrolytic, 100MFD 16WV	1	
C804, 805	YEU05SL220J		Ceramic, 22PF 50WV	2	
C806, 807	YEU05F104Z		Ceramic, 0.1MFD 50WV	2	
C808	ECEA1HKS010B		Electrolytic, 1MFD 50WV	1	
C809	ECEA0JKS220I		Electrolytic, 22MFD 6.3WV	1	
CS701	YECCL55S222T		Noise Filter, 2200PF 100WV	1	

MODELS CQ-DP655EUC/CQ-DP640EUC/CQ-DP638EU/CQ-DPX100EU

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
[E8071A]			**DISPLAY BLOCK**		
C901	YECUS1C104KX		Ceramic, 0.1MFD 16WV	1	
C911	YECUS1H102KX		Ceramic, 0.001MFD 50WV	1	
C913	YECUS1C104KX		Ceramic, 0.1MFD 16WV	1	
C914	YECUV1C104KX		Ceramic, 0.1MFD 16WV	1	
C922	YECUS1C104KX		Ceramic, 0.1MFD 16WV	1	CQ-DP655EUC
C950	YECUS1C104KX		Ceramic, 0.1MFD 16WV	1	
C951	ECSH1CY105CR		Tantalum, 1MFD 16WV	1	
C952	YECUV1C104KX		Ceramic, 0.1MFD 16WV	1	
C953, 954	YECUS1C104KX		Ceramic, 0.1MFD 16WV	2	
C955	ECSH1AX106CR		Tantalum, 10MFD 10WV	1	
C957	ECSH0JY475CR		Tantalum, 4.7MFD 6.3WV	1	
C958	ECSH1CY225CR		Tantalum, 2.2MFD 16WV	1	
C959, 960	YECUS1H103KX		Ceramic, 0.01MFD 50WV	2	
C961	YEU05F104Z		Ceramic, 0.1MFD 50WV	1	
C962	ECSF1AE225B1		Tantalum, 2.2MFD 10WV	1	
			RESISTORs		
[E2502B]			**MAIN BLOCK**		
R51	ERDS2TJ221		Carbon, 220 ohms 0.25W	1	
R53	ERD25TJ473		Carbon, 47k ohms 0.25W	1	
R55	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
R56	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R57, 58	ERD25TJ472		Carbon, 4.7k ohms 0.25W	2	
R59	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R62	ERDS2TJ563		Carbon, 56k ohms 0.25W	1	
R63, 64	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	2	
R201	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	CQ-DP655EUC, CQ-DP640EUC, CQ-DPX100EU
R202	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
R203	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R204	ERDS2TJ333		Carbon, 33k ohms 0.25W	1	
R205	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	1	CQ-DP655EUC, CQ-DP640EUC, CQ-DPX100EU
R206	ERDS2TJ222		Carbon, 2.2k ohms 0.25W	1	
R207	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R221	ERD25TJ153		Carbon, 15k ohms 0.25W	1	CQ-DP655EUC
R222	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	CQ-DP655EUC
R223	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
R224	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	
R241	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R242	ERD25TJ333		Carbon, 33k ohms 0.25W	1	
R243	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R261, 262	ERDS2TJ561		Carbon, 560 ohms 0.25W	2	
R265, 266	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R267	ERD25TJ681		Carbon, 680 ohms 0.25W	1	
R271, 272	ERD25TJ561		Carbon, 560 ohms 0.25W	2	
R273, 274	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	2	
R275, 276	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	2	
R277	ERD25TJ2R2		Carbon, 2.2 ohms 0.25W	1	
R278	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	1	
R290, 291	ERD25TJ102		Carbon, 1k ohms 0.25W	2	
R301	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	CQ-DP655EUC, CQ-DP640EUC, CQ-DPX100EU
R302	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
R303	ERD25TJ103		Carbon, 10k ohms 0.25W	1	
R304	ERDS2TJ333		Carbon, 33k ohms 0.25W	1	
R305	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	1	
R306	ERDS2TJ222		Carbon, 2.2k ohms 0.25W	1	
R307	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R321	ERD25TJ153		Carbon, 15k ohms 0.25W	1	CQ-DP655EUC
R322	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	CQ-DP655EUC
R323	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
R324	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	
R361, 362	ERDS2TJ561		Carbon, 560 ohms 0.25W	2	
R365, 366	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R371, 372	ERD25TJ561		Carbon, 560 ohms 0.25W	2	
R373, 374	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	2	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R375 to 378	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	4	
R401 to 403	ERDS2TJ152		Carbon, 1.5k ohms 0.25W	3	
R404, 405	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R406	ERD25TJ472		Carbon, 4.7k ohms 0.25W	1	
R407	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R501	ERD25TJ183		Carbon, 18k ohms 0.25W	1	
R502	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
R512, 513	ERDS2TJ473		Carbon, 47k ohms 0.25W	2	
R551	ERD25TJ183		Carbon, 18k ohms 0.25W	1	
R552	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
R601	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	CQ-DP655EUC
	ERDS2TJ273		Carbon, 27k ohms 0.25W	1	CQ-DP638EU
R602	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	CQ-DP640EUC /638EU/DPX100EU
R608, 609	ERD25TJ102		Carbon, 1k ohms 0.25W	2	
R611	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	
R621	ERDS2TJ4R7		Carbon, 4.7 ohms 0.25W	1	
R623	ERD25TJ102		Carbon, 1k ohms 0.25W	1	CQ-DP655EUC
R625	ERDS1FJ2R2		Carbon, 2.2 ohms 0.5W	1	
R626	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R627, 628	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R630, 631	ERD25TJ102		Carbon, 1k ohms 0.25W	2	
R632	ERDS2TJ100		Carbon, 10 ohms 0.25W	1	
R633	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R634	ERDS2TJ681		Carbon, 680 ohms 0.25W	1	CQ-DP655/640EUC /DPX100EU
R635	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R638	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R639	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R640	ERDS2TJ823		Carbon, 82k ohms 0.25W	1	CQ-DP655EUC, CQ-DP640EUC, CQ-DPX100EU
R642	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R643	ERDS2TJ181		Carbon, 180 ohms 0.25W	1	
R653	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R654, 655	ERD25TJ102		Carbon, 1k ohms 0.25W	2	
R702	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R703	ERDS1FJ391		Carbon, 390 ohms 0.5W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R706 to 708	ERDS2TJ104		Carbon, 100k ohms 0.25W	3	CQ-DP655EUC
R713	ERD25TJ103		Carbon, 10k ohms 0.25W	1	CQ-DP655/640EUC /DPX100EU
R717	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R721	ERD25FJ1R0T		Carbon, 1 ohm 0.25W	1	
R722	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R725	ERDS2TJ471		Carbon, 470 ohms 0.25W	1	
R727	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R728	ERG2SJ221		Metal Oxid, 220 ohms 2W	1	
R733	ERDS2TJ684		Carbon, 680k ohms 0.25W	1	
R734	ERDS2TJ124		Carbon, 120k ohms 0.25W	1	
R735	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R736	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	
R737, 738	ERDS2FJ470		Carbon, 47 ohms 0.25W	2	
R739	ERDS2TJ682		Carbon, 6.8k ohms 0.25W	1	
R740	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R745	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R801	ERDS2TJ561		Carbon, 560 ohms 0.25W	1	
R802, 803	ERD25TJ104		Carbon, 100k ohms 0.25W	2	
R804, 805	ERDS2TJ103		Carbon, 10k ohms 0.25W	2	
R806, 807	ERDS2TJ223		Carbon, 22k ohms 0.25W	2	
R808	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	1	
R809, 810	ERDS2TJ682		Carbon, 6.8k ohms 0.25W	2	
R811	ERDS2TJ683		Carbon, 68k ohms 0.25W	1	
R812	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	
R813	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R815	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	CQ-DP655/640EUC /DPX100EU
R816	ERDS2TJ100		Carbon, 10 ohms 0.25W	1	
R820	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	CQ-DP638EU
R821	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
[E8071A]			**DISPLAY BLOCK**		
R901 to 904	ERJ6GEYJ102		Chip, 1k ohms 0.1W	4	
R905	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R906	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	CQ-DP655EUC
R907	ERJ6GEYJ561		Chip, 560 ohms 0.1W	1	
R915	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R917	ERJ8GEYJ4R7V		Chip, 4.7 ohms 0.13W	1	
R951	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R952	ERJ6GEYJ104		Chip, 100k ohms 0.1W	1	
R953	ERJ6GEYJ392		Chip, 3.9k ohms 0.1W	1	
R954	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1	
R955, 956	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	2	
R957	ERJ6GEYJ474		Chip, 470k ohms 0.1W	1	
R958	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R959	ERJ6GEYJ104		Chip, 100k ohms 0.1W	1	
R960	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R962	ERJ6GEYJ564		Chip, 560k ohms 0.1W	1	
R963	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R965	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1	

CONNECTORs

MAIN BLOCK [E2502B]

CN350	YEAE02175		Connector, 3P	1	CQ-DP655/640EUC /638EU
	YEAE02177			1	CQ-DPX100EU
CN360	YEAE02166		Connector, 4P RCA	1	CQ-DP655/640EUC /638EU
	YEAE02176			1	CQ-DPX100EU
CN370	YEAE911003LS		Connector, 3P	1	
CN500	YEAE0114TKCB		Connector, 14P	1	
CN601	YEAE0112MPA		Connector, 12P	1	
CN672	YEAE012307		Connector, 8P DIN	1	CQ-DP655EUC
CN700	YEAE0106TUCP		Connector, 6P	1	CQ-DP655EUC
CN701	YEAE012194		Connector, 16P	1	
CP260	YEAE012242		Connector, 2P RCA	1	CQ-DP655EUC
CP370	YEAE603303AS		Connector, 3P	1	
CP600	YEAE012298		Connector, 12P	1	
CP601	YEAE0112MX		Connector, 12P	1	
CP671	YEAE0106TUCX		Connector, 6P	1	CQ-DP655EUC

DISPLAY BLOCK [E8071A]

CN901	YEAE012282		Connector, 12P	1	

SWITCHEs

SW601	YEAS07174		Switch	1	CQ-DP655 /640EUC/DPX100EU
SW901 to 919	EVQPJX05M		Switch	19	
SW951, 952	EVQPJX05M		Switch	2	

CRYSTALs

XL401	YEXL49U072TA		Crystal OSC	1	
XL600	YEXL49U838TA		Crystal OSC	1	

COIL

L101	YELT02C330KT		Coil	1	
L401	YELT02C101KT		Coil	1	
L500	ELEH102KA		Coil	1	
L601	YELT02C101KT		Coil	1	

LCD

LCD901	YEXDCM1133		LCD	1	

THERMISTOR

PT701	YERT6AR4R7MT		Thermistor	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
PRINTINGs					
	YEFM282327		Operating Instructions	1	CQ-DP655/640EUC
	YEFM282331			1	CQ-DPX100EU
	YEFM282369			1	CQ- DP638EU
INSTALLATION PART					
1	YEFX0213629		Mounting Collar	1	
2	XWG5FX		Plain Washer, 5mm	2	
3	XWA5BFX		Spring Washer, 5mm	2	
4	XNG5AFX		Hex. Nut, 5mm	2	
5	YEFG04019		Raer Support Strap	1	
6	XVG5C25FX		Hex. Bolt, 5mm×25mm	1	
7	XWC5CFX		Toothed Lock Washer, 5mm	1	
9	YEFX0213377		Dismounting Pin	1	
8	YEJV01060		Mounting Bolt, 5mm×8mm	1	
10	YEAJ02689A		Power Connector	1	CQ-DP655/640EUC /DPX100EU
	YEAJ02691A			1	CQ- DP638EU
11	YEFA131141		Removal Face Plate Case	1	
MISCELLANEOUS					
PL901, 902	YEAL01211		Pilot Lamp	2	
PL903, 904	YEAL01202		Pilot Lamp	2	
F1	XBB1F100NS5		Fuse, 10A	1	
Z51	YEAL02010T		Neon Lamp	1	
MIC951	WM-60AX111		Microphone	1	
ANT51	YEAA10060		Antenna Receptacle	1	
1 (1-B)	YEFA05594A		Bottom Cover	1	
2 (4-C)	YEFA031359A		Upper Cover	1	
3 (2-B)	YEFA131143		Cover (Detucher)	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
4 (2-B)	YEFA07346		Front Plate	1	
5 (3-C)	YEFA08404BK		Rear Plate	1	CQ-DP655EUC
	YEFA08402BK			1	CQ-DP640EUC/638EU /DPX100EU
6 (2-C)	YEFA09484		Side Plate	1	
7 (1-A)	YEFC05535		Trim Plate	1	
8 (2-B)	YEFC024463		Escutcheon Ass'y (Unit)	1	CQ-DP655/640EUC /DPX100EU
	YEFC024536			1	CQ-DP638EU
9 (1-A)	YEFC024446		Escutcheon Ass'y (Detucher)	1	CQ-DP655EUC
	YEFC024448			1	CQ-DP640EUC
	YEFC024452			1	CQ-DPX100EU
	YEFC024533			1	CQ-DP638EU
10 (2-A)	YEFC024445		Escutcheon	1	CQ-DP655EUC
	YEFC024447			1	CQ-DP640EUC
	YEFC024451			1	CQ-DPX100EU
	YEFC024534			1	CQ-DP638EU
11 (2-A)	YEFE134191		Button, EJECT	1	
12 (2-B)	YEFE134198		Button, DISP	1	
13 (2-A)	YEFE134182		Button, TUNE/TRACK	1	
14 (2-A)	YEFE134184		Button, VOL	1	
15 (2-A)	YEFE134186		Button, BAND/MODE	1	
16 (3-A)	YEFE134187		Button, Preset 1, 2, 3	1	
17 (3-A)	YEFE134188		Button, Preset 4, 5	1	
18 (2-A)	YEFE134189		Button, PLAY	1	
19 (3-A)	YEFE134190		Button, REC	1	
20 (2-A)	YEFJ011193		Ornament Plate	1	CQ-DP655EUC
21 (3-A)	YEFX0011553		Transparent Plate, (L)	1	
22 (2-B)	YEFX0011554		Transparent Plate, (R)	1	
23 (1-A)	YEFE134181		Button, PWR	1	
24 (1-A)	YEFE134183		Button, ATT	1	
25 (1-A)	YEFE134185		Button, SEL	1	
26 (1-A)	YEFE134202		Button, RLSE	1	
27 (3-B)	YEFF01797		Heat Sink	1	
28 (1-C)	YEFX0213648A		Bracket, IC271	1	
29 (3-C)	YEFX0213649A		Bracket, CN701	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
30 (2-C)	YEFX0213650		Bracket, RCA Connector	1	
31 (2-A)	YEFK04542		Holder, PL903, 904	1	
32 (2-A)	YEFK06670		Holder, MIC951	1	
33 (1-B)	YEFK06671		Holder, LCD	1	
34 (2-A)	YEFR04140		Illumination Cap, PL903, 904	2	
35 (4-C)	YEFR04187		RCA Connector Cap	2	CQ-DP655EUC
36 (1-B)	YEFV011634		Insulator	1	
37 (1-A)	YEFV021350		Optical Shade, LCD	1	
38 (1-A)	YEFX0213814		Bracket, LCD	1	
39 (3-A)	YEFX0213668		Bracket, Deck	1	
40 (1-A)	YEFX0052003		Spring	1	
41 (1-A)	YEFX0011549		Transparent Plate, LCD	1	
42 (2-B)	YEFX0212830		Bracket, IC704	1	
43 (2-C)	YEFX0213669B		Bracket, (R)	1	
44 (3-B)	YEFX0213713A		Bracket, (L)	1	
45 (4-C)	YEFX007380		Cord Clamper	1	CQ-DP655EUC
46 (1-B) (1-C)	YEAT03420		Terminal	3	
47	YEP0PT2502B0		PCB w/Component RTL	1	CQ-DP655EUC
	YEP0PT2502D0			1	CQ-DP640EUC
	YEP0PT2502C0			1	CQ-DPX100EU
	YEP0PT2502F0			1	CQ-DP638EU
48 (2-A)	YEP0PT8071B0		PCB w/Component RTL	1	CQ-DP655EUC
	YEP0PT8071D0			1	CQ-DP640EUC /638EU/DPX100EU
49 ⊛	YEJT03003		Screw, 3mm×10mm	4	
50 ☆	YEJT03156		Screw, 2.6mm×4mm	2	
51 ◬	XSB26+4FX		Screw, 2.6mm×4mm	2	
52 ★	XSB26+4FZ		Screw, 2.6mm×4mm	2	
53 ◎	XTB3+6FFX		Screw, 3mm×6mm	13	CQ-DP655EUC
				11	CQ-DP640EUC/638EU /DPX100EU
54 ⊙	XTN2+8GFZ		Screw, 2mm×8mm	7	
55 ❁	XTB3+6JFX		Screw, 3mm×6mm	1	
56 ❖	XTB3+8GFX		Screw, 3mm×8mm	1	
57 ◉	YEJS05016		Screw, 3mm×15mm	2	

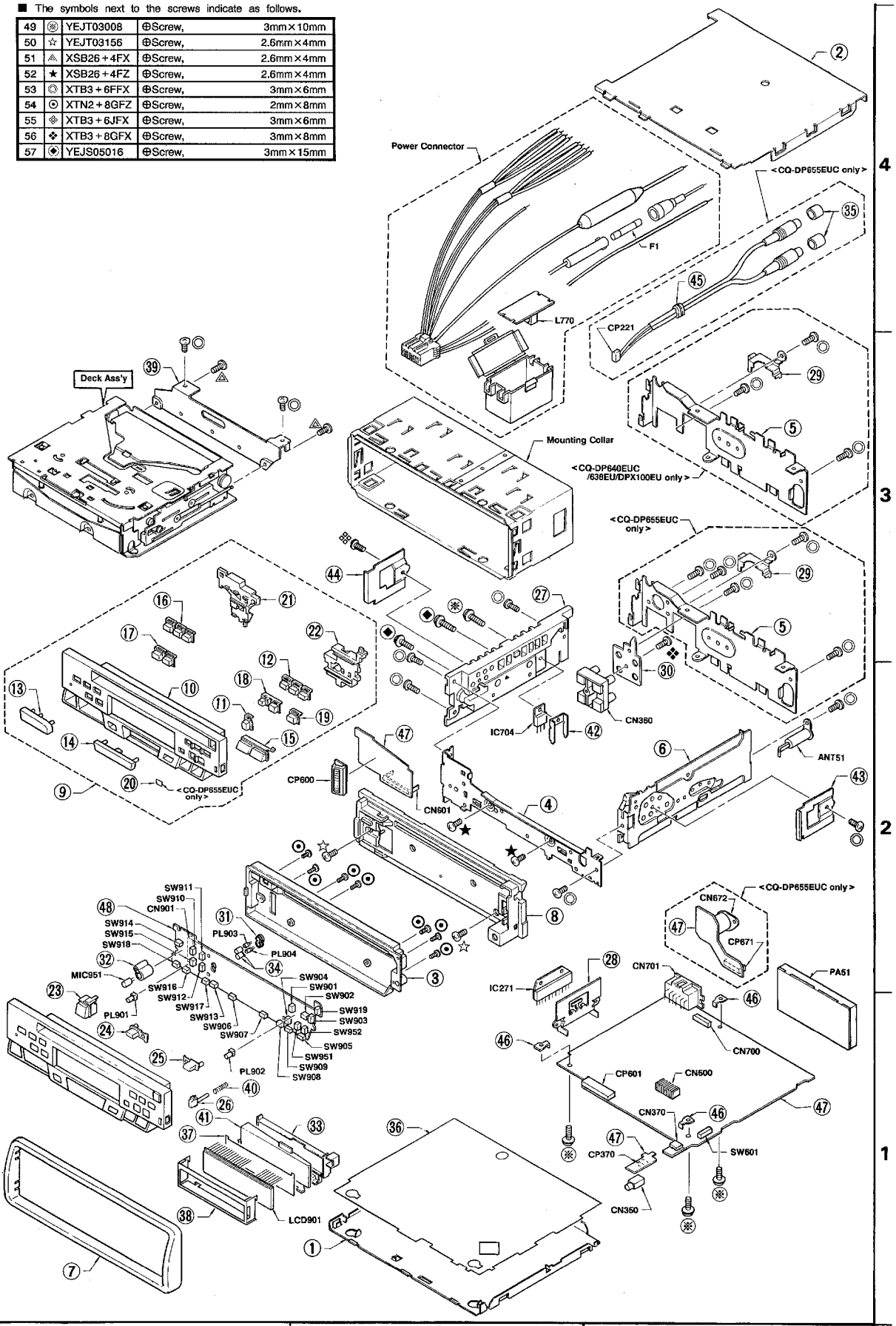
Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CD PLAYER PARTS					FD15042 94.10.31
[E8018B] **ICs AND TRANSISTORs**					
IC101	AN8806SBE1		IC	1	
IC201	MN662713RC		IC	1	
IC301	MN187124CYH1		IC	1	
IC401	YEAMBA6295AF		IC	1	
IC501	YEAMBA6399FP		IC	1	
Q101	2SB766ATX		Transistor	1	
Q401	2SD601TX		Transistor	1	
Q601, 602	2SD874ATX		Transistor	2	
[E8018B] **DIODEs**					
D401	MA151KTX		Diode	1	
D402, 403	MA151WKTX		Diode	2	
[E8018B] **CAPACITORs**					
C101 to 103	YECUS1C104KX		Ceramic, 0.1MFD 16WV	3	
C104	ECEV0JA470SR		Electrolytic, 47MFD 6.3WV	1	
C105	ECSH0JC226CR		Tantalum, 22MFD 6.3WV	1	
C106	YECUS1C104KX		Ceramic, 0.1MFD 16WV	1	
C107	ECEV1HA010SR		Electrolytic, 1MFD 50WV	1	
C108	YECUS1H101JM		Ceramic, 100PF 50WV	1	
C109	YECUS1H273KX		Ceramic, 0.027MFD 50WV	1	
C110	YECUS1H152KX		Ceramic, 0.0015MFD 50WV	1	
C111	YECUS1H472KX		Ceramic, 0.0047MFD 50WV	1	
C112	YECUS1H152KX		Ceramic, 0.0015MFD 50WV	1	

EXPLODED VIEW (UNIT)

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST

■ The symbols next to the screws indicate as follows.

49	㊋	YEJT03008	⊕Screw, 3mm×10mm
50	☆	YEJT03156	⊕Screw, 2.6mm×4mm
51	▲	XSB26+4FX	⊕Screw, 2.6mm×4mm
52	★	XSB26+4FZ	⊕Screw, 2.6mm×4mm
53	◎	XTB3+6FFX	⊕Screw, 3mm×6mm
54	⊙	XTN2+8GFZ	⊕Screw, 2mm×8mm
55	❋	XTB3+6JFX	⊕Screw, 3mm×6mm
56	❖	XTB3+8GFX	⊕Screw, 3mm×8mm
57	◆	YEJS05016	⊕Screw, 3mm×15mm



Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C113	YECUS1H102KX		Ceramic, 0.001MFD 50WV	1	
C114	YECUS1C104KX		Ceramic, 0.01MFD 16WV	1	
C115	YECUX1C334KX		Ceramic, 0.33MFD 25WV	1	
C116	YECUS1H273KX		Ceramic, 0.027MFD 50WV	1	
C117	YECUS1H561JM		Ceramic, 560PF 50WV	1	
C118	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C122	YECUS1H102KX		Ceramic, 0.001MFD 50WV	1	
C201	YECUS1C823KX		Ceramic, 0.082MFD 16WV	1	
C202	YECUS1H123KX		Ceramic, 0.012MFD 50WV	1	
C203, 204	YECUV1C224KX		Ceramic, 0.22MFD 16WV	2	
C205	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C206	ECEV0JA470SR		Electrolytic, 47MFD 6.3WV	1	
C207	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C208	ECEV0JA470SR		Electrolytic, 47MFD 6.3WV	1	
C209	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C210	ECEV0JA470SR		Electrolytic, 47MFD 6.3WV	1	
C211, 301	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	2	
C302	ECEV0JA470SR		Electrolytic, 47MFD 6.3WV	1	
C303, 304	YECUS1H330JM		Ceramic, 33PF 50WV	2	
C305	YECUS1H103KX		Ceramic, 0.01MFD 50WV	1	
C401	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C402	ECEV1CA470SP		Electrolytic, 47MFD 16WV	1	
C403	YECUV1C224KX		Ceramic, 0.22MFD 16WV	1	
C501	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	
C502	ECEV1CA470SP		Electrolytic, 47MFD 16WV	1	
C503	YECUS1E104ZF		Ceramic, 0.1MFD 25WV	1	

[E8018B]

RESISTORs

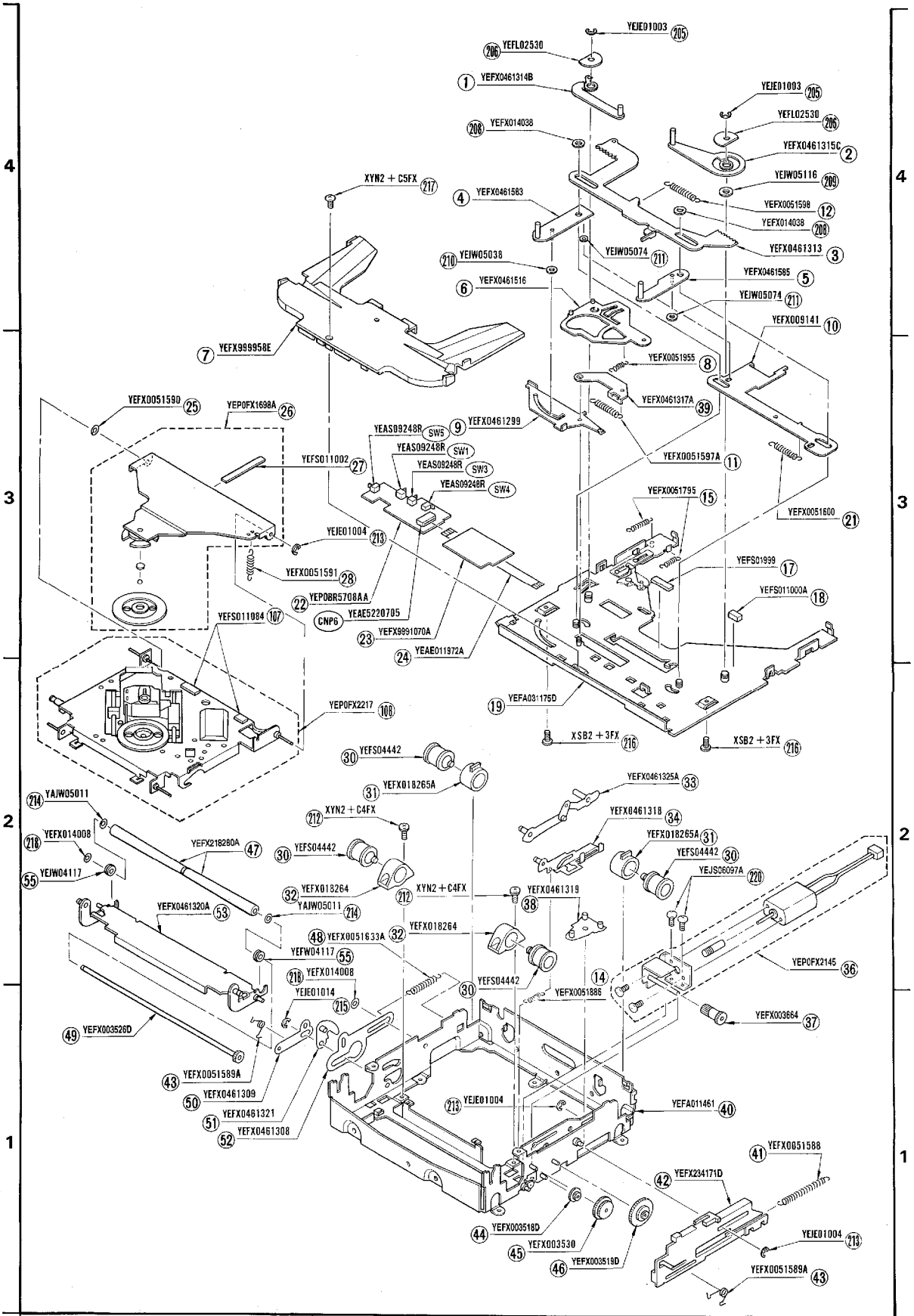
R100	ERJ6GEYJ334		Chip, 330k ohms 0.1W	1	
R101	ERJ6GEYJ101		Chip, 100 ohms 0.1W	1	
R102	ERJ14YJ100H		Chip, 10 ohms 0.25W	1	
R103	ERJ6GEYJ512V		Chip, 5.1k ohm 0.1W	1	
R104 to 107	ERJ6GEYJ333		Chip, 33k ohms 0.1W	4	
R108, 109	ERJ6GEYJ154		Chip, 150k ohms 0.1W	2	
R110	ERJ6GEYJ224		Chip, 220k ohms 0.1W	1	
R111	ERJ6GEYJ104		Chip, 100k ohms 0.1W	1	
R112, 113	ERJ6GEYJ102		Chip, 1k ohms 0.1W	2	
R114	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R115	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R117	ERJ6GEYJ273		Chip, 27k ohms 0.1W	1	
R119	ERJ6GEYJ184		Chip, 180k ohms 0.1W	1	
R201 to 206	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	6	
R208	ERJ6GEYJ471		Chip, 470 ohms 0.1W	1	
R209	ERJ6GEYJ823		Chip, 82k ohms 0.1W	1	
R210	ERJ6GEYJ105		Chip, 1M ohms 0.1W	1	
R211	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R212	ERJ6GEYJ470		Chip, 47 ohms 0.1W	1	
R302	ERJ6GEYJ563		Chip, 56k ohms 0.1W	1	
R304 to 308	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	5	
R309	ERJ6GEYJ104		Chip, 100k ohms 0.1W	1	
R310	ERJ6GEYJ103		Chip, 10k ohms 0.1W	1	
R311	ERJ6GEYJ563		Chip, 56k ohms 0.1W	1	
R312	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R313	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	1	
R314	ERJ6GEYJ104		Chip, 100k ohms 0.1W	1	
R401	ERJ6GEYJ822		Chip, 8.2k ohms 0.1W	1	
R402 to 404	ERJ6GEYJ102		Chip, 1k ohms 0.1W	3	
R501	ERJ6GEYJ562		Chip, 5.6k ohms 0.1W	1	
R502	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R503	ERJ6GEYJ154		Chip, 150k ohms 0.1W	1	
R508	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1	
R509	ERJ6GEYJ332		Chip, 3.3k ohms 0.1W	1	
R510	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1	
R601, 602	ERJ6GEYJ471		Chip, 470 ohms 0.1W	2	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
CONNECTORs					
CN1	YEAE0114TKCE		Connector, 14P	1	
CN201	YEAE5220712		Connector, 12P	1	
CN301	YEAE5227106		Connector, 6P	1	
CN401	YEAE5220704		Connector, 4P	1	
CN501	YEAE5227105		Connector, 5P	1	
CN601	YEAE5326102		Connector, 2P	1	
CRYSTALs					
XL201	YEXLCSTC169T		Crystal OSC	1	
XL301	YEXLCSAC419M		Crystal OSC	1	
SWITCHEs					
SW1	YEAS09248R		Switch	1	
SW2	YEAS08030Z		Switch	1	
SW3 to 5	YEAS09248R		Switch	3	
MISCELLANEOUS					
1 (4-B)	YEFX0461314B		Position Detect, Lever (R)	1	
2 (4-C)	YEFX0461315C		Position Detect, Lever (L)	1	
3 (4-C)	YEFX0461313		Gear Lever Ass'y	1	
4 (4-B)	YEFX0461583		Disc Lock Lever (RA)	1	
5 (4-C)	YEFX0461585		Disc Lock Lever (LA)	1	
6 (4-B)	YEFX0461516		Cam Lever Ass'y	1	
7 (3-A)	YEFX999958E		Disc Guide (u)	1	
8 (3-C)	YEFX0051955		Cam Lever Spring	1	
9 (3-B)	YEFX0461299		IN Switch Lever	1	
10 (4-C)	YEFX009141		Slide Joint Lever	1	
11 (3-C)	YEFX0051597A		Switch Lever Spring	1	
12 (4-C)	YEFX0051598		Gear Lever Spring	1	

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
14 (1-B)	YEFX0051886		Joint Lever Spring	1	
15 (3-C)	YEFX0051795		Spring	2	
17 (3-C)	YEFS01999		Pad (A)	1	
18 (3-C)	YEFS011000A		Pad (B)	1	
19 (2-B)	YEFA031175D		Upper Chassis Ass'y	1	
21 (3-C)	YEFX0051600		Slide Joint Spring	1	
22 (3-A)	YEP0BR5708AA		PCB w/Component	1	RTL
23 (3-B)	YEFX9991070A		Cover for PCB	1	
24 (3-B)	YEAE011972A		5P Flat Cable	1	
25 (3-A)	YEFX0051590		Spring	1	
26 (3-B)	YEP0FX1698A		Clamper Ass'y	1	
27 (3-B)	YEFS011002		Pad	1	
28 (3-B)	YEFX0051591		Clamper Spring	1	
30 (2-B) (2-C)	YEFS04442		Dumper	4	
31 (2-C)	YEFX018265A		Dumper Bracket (B)	2	
32 (2-B) (2-C)	YEFX018264		Dumper Bracket (F)	2	
33 (2-C)	YEFX0461325A		Lock Lever R Ass'y	1	
34 (2-C)	YEFX0461318		Joint Lever RA Ass'y	1	
35 (1-B)	YEFX9991107A		Balancer	1	
36 (2-C)	YEP0FX2145		Loading Motor	1	
37 (1-C)	YEFX003664		Loading Gear	1	
38 (2-B)	YEFX0461319		Joint Lever RB Ass'y	1	
39 (3-C)	YEFX0461317A		Eject Lever Switch Ass'y	1	
40 (1-C)	YEFA011461		Main Chassis Ass'y	1	
41 (1-C)	YEFX0051588		Slide Cam Spring	1	
42 (1-C)	YEFX234171D		Slide Cam R	1	
43 (1-A) (1-C)	YEFX0051589A		Feeder Arm Spring	2	
44 (1-B)	YEFX003518D		Loading Gear 2	1	
45 (1-B)	YEFX003530		Friction Gear Ass'y	1	
46 (1-B)	YEFX003519D		Loading Gear 3	1	
47 (2-A)	YEFX218280A		Rubber Roller	2	
48 (2-A)	YEFX0051633A		Lock Lever Spring	1	
49 (1-A)	YEFX003526D		Roller Gear Ass'y	1	
50 (1-A)	YEFX0461309		Joint Lever LA	1	

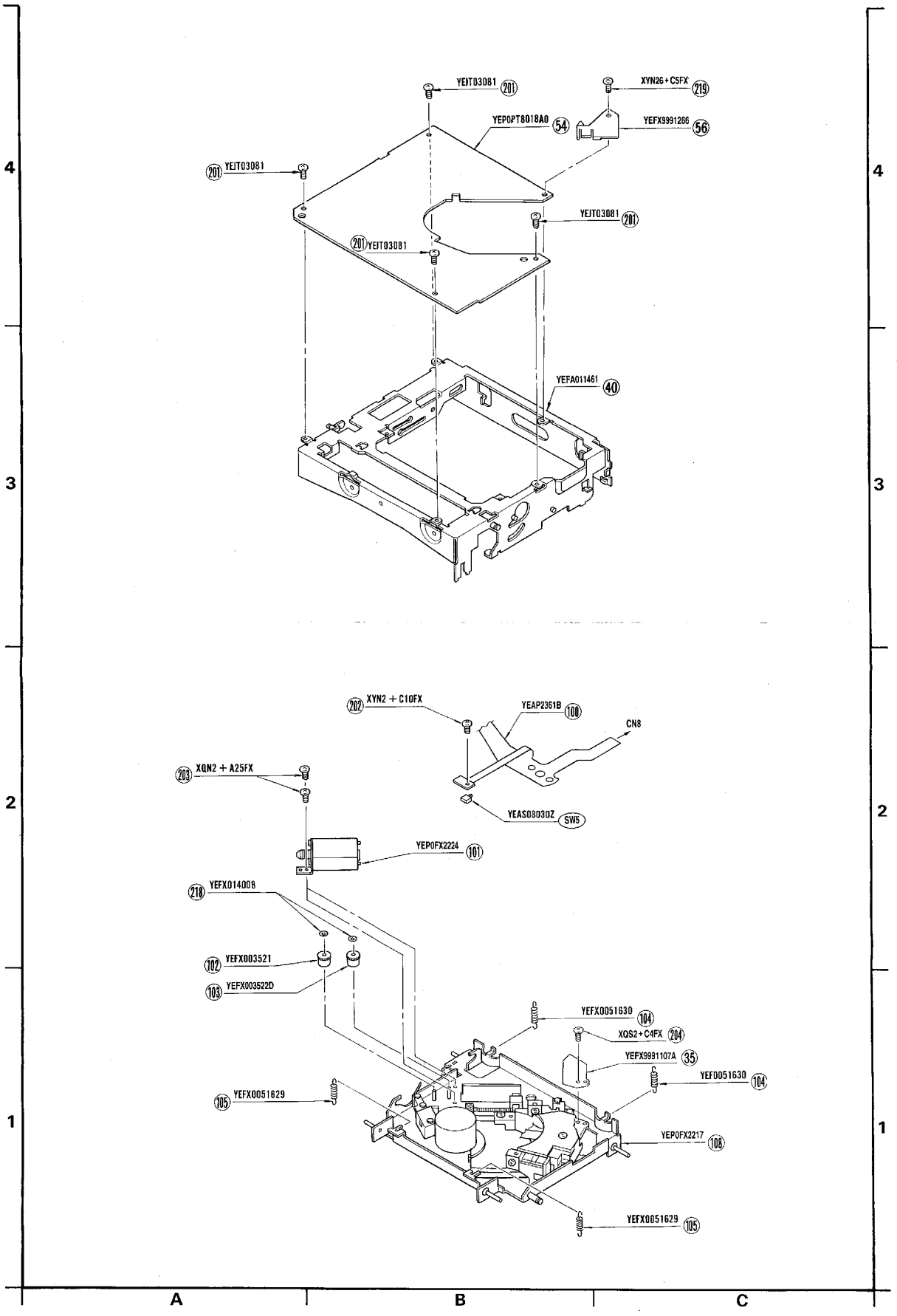
EXPLODED VIEW (CD Deck-1)

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



EXPLODED VIEW (CD Deck-2)

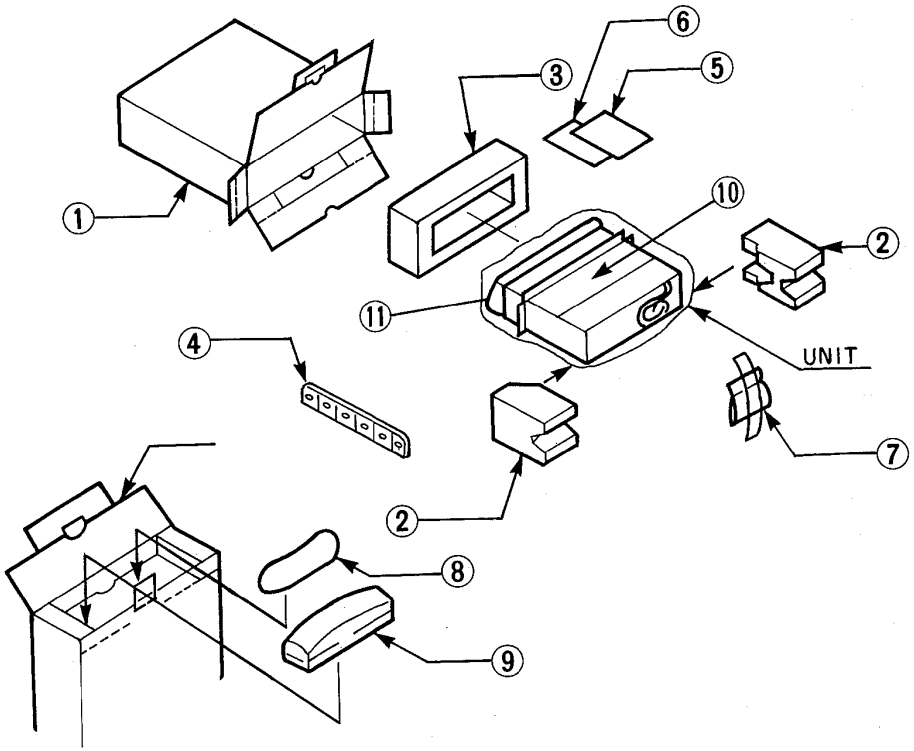
■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



CQ-DP655/640EUC
CQ-DP638/DPX100EU

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
51 (1-A)	YEFX0461321		Lock Lever LA Ass'y	1	
52 (1-A)	YEFX0461308		Lock Lever LB	1	
53 (1-A)	YEFX0461320A		Feeder Arm Ass'y	1	
54 (4-B)	YEP0PT8018A0		PCB w/Component	1	RTL
55 (2-B) (2-C)	YEFW04117		Roller Shaft	2	
56 (4-C)	YEFX9991266		FPC Holder	1	
100 (2-B)	YEAP2361B		Flexible Printed Circuit Board	1	
101 (2-B)	YEP0FX2224		Travers Motor Ass'y	1	
102 (1-A)	YEFX003521		Worm Gear	1	
103 (1-A)	YEFX003522D		Worm Wheel	1	
104 (1-C)	YEFX0051630		Suspension Spring (F)	2	
105 (1-A) (1-C)	YEFX0051629		Suspension Spring (R)	2	
107 (3-A)	YEFS011084		Pad (J)	2	
108 (2-B)	YEP0FX2217		Suspension Ass'y w/Optical Pick	1	
201	YEJT03081		Screw	4	
202 (2-B)	XYN2 + C10FX		Screw 2mmϕ × 10mm	1	
203 (2-B)	XQN2 + A25FX		Screw 2mmϕ × 25mm	2	
204 (1-B)	XQS2 + C4FX		Screw	1	
205 (4-B) (4-C)	YEJE01003		E-Ring	2	
206 (4-B) (4-C)	YEFL02530		Spacer	2	
208 (4-C)	YEFX014038		Snap Ring	2	
209 (4-C)	YEJW05116		Washer	1	
210 (4-B)	YEJW05038		Washer	1	
211 (4-C)	YEJW05074		Washer	2	
212 (2-B)	XYN2 + C4FX		Screw 2mmϕ × 4mm	2	
213	YEJE01004		E-Ring	3	
214 (2-A) (2-B)	YAJW05011		Washer	2	
215 (1-A)	YEJE01014		E-Ring	1	
216 (2-B) (2-C)	XSB2 + 3FX		Screw	2	
217 (4-B)	XYN2 + C5FX		Screw	1	
218	YEFX014008		Snap Ring	4	
219 (4-C)	XYN26 + C5FX		Screw	1	
220 (2-C)	YEJS06097A		Screw	2	

PACKING PARTS LIST



- *Item numbers listed below should not order regular spare parts.* ***(not available)***

Item No.	Part No.	Part Name & Description	Q'ty	Remarks
①	<CQ-DP655EUC> YEP9PC6109	Inner Carton	1	Not available
②		Packing Pad R and L	1	Not available
③		Packing Pad Front	1	Not available
①	<CQ-DP640EUC> YEP9PC6131	Inner Carton	1	Not available
②		Packing Pad R and L	1	Not available
③		Packing Pad Front	1	Not available
①	<CQ-DP638EU> YEP9PC6149	Inner Carton	1	Not available
②		Packing Pad R and L	1	Not available
③		Packing Pad Front	1	Not available
①	<CQ-DPX100EU> YEP9PC6130	Inner Carton	1	Not available
②		Packing Pad R and L	1	Not available
③		Packing Pad Front	1	Not available
④	YEFG04019	Rear Support Strap	1	
⑤	YEP9PR2814	Printing Kit for Canada (CQ-DP655/640EUC)	1	Not available
⑥	YEP9PR2918	Instruction Book Kit (CQ-DP655/640EUC)	1	Not available
	YEFM282327	Instruction Book (CQ-DP655/640EUC)	(1)	
		Warranty Card for USA	(1)	Not available
		Servicenter List	(1)	Not available
⑥	YEP9PR2956	Installation Book Kit (CQ-DP638EU)	1	Not available
	YEFM282369	Instruction Book (CQ-DP638EU)	(1)	
		Warranty Card for USA	(1)	Not available
		Servicenter List	(1)	Not available
⑥	YEP9PR2922	Installation Book Kit (CQ-DPX100EU)	1	Not available
	YEFM282331	Instruction Book (CQ-DPX100EU)	(1)	
		Warranty Card for USA	(1)	Not available
		Servicenter List	(1)	Not available
⑦	YEP9FZ2311	Screw Kit	1	Not available
	XNG5AFX	Nut. Hex. (5mmϕ)	(2)	
	XVG5C25FX	Bolt. Hex. (5mmϕ×25mm)	(1)	
	YEJV01060	Mounting Bolt (5mmϕ×8mm)	(1)	
	XWA5BFX	Spring Washer (5mmϕ)	(2)	
	XWC5CFX	Toothed Lock Washer (5mmϕ)	(1)	
	XWG5FX	Plain Washer (5mmϕ)	(2)	
	YEFX0213377	Dismounting Pin	(1)	
⑧	YEAJ02689A	Power Connector (CQ-DP655/640EUC/DPX100EU)	1	
	YEAJ02691A	Power Connector (CQ-DP638EU)	1	
⑨	YEFA131141	Removal Face Plate Case	1	
⑩	YEFX0213629	Mounting Collar	1	
⑪	YEFC05535	Trim Plate	1	

U-155
Printed in Japan Ⓢ
1995. 2